

UNITED EYELETS AND EYELETING MACHINES

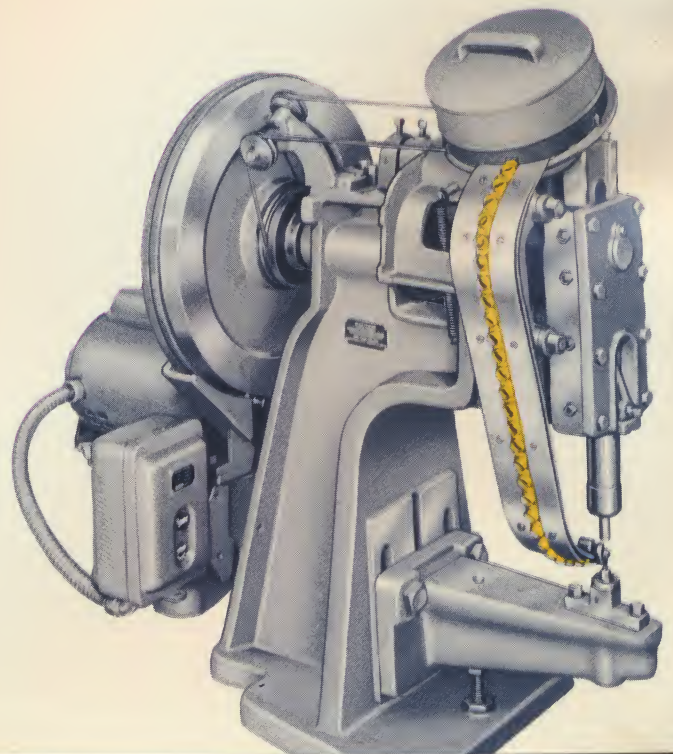
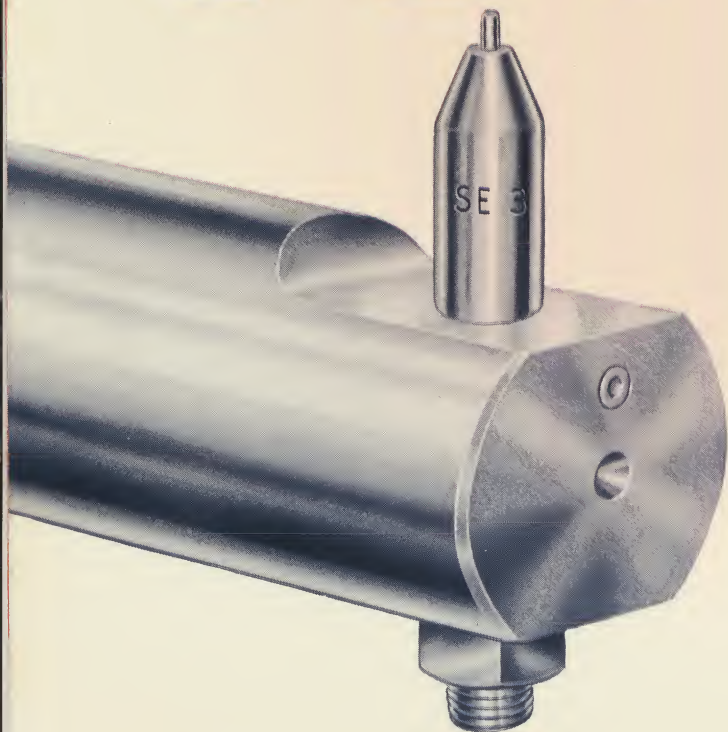
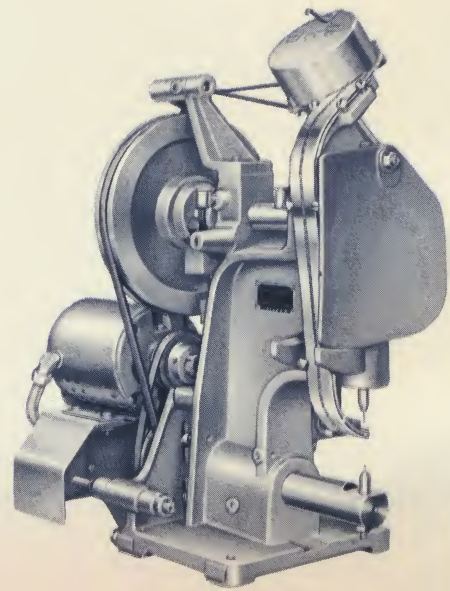


FASTENER DIVISION

United Shoe Machinery Corporation

SHELTON, CONNECTICUT 06485

How to stop the



EYELET hunt...



ONLY 7 SETS OF TOOLS FOR ALL 65 SIZES

United's acknowledged leadership in the eyelet industry, producing low-installed-cost eyelets.

Eyelets by United means *UNMATCHED TOTAL VALUE TO YOU* for these reasons:

STANDARDIZED EYELET SIZES: only 7 sets of tools required for all 65 sizes; makes specifications of United Eyelets by design engineers quick and easy; aids in the fast and economical production of eyeleted parts.

FAST DELIVERY: a most important value since most manufacturers, in an effort to control costs, try to keep inventories as low as possible... United assists in this effort through fast deliveries from stock at the Shelton, Connecticut plant and from warehouses in Chicago and Los Angeles.

QUALITY: dimensions held to close tolerances and top quality control applied through all stages of production; United Eyelets in conjunction with United Eyeleting machines assure *low-installed-cost* resulting from less down time and fewer reworks.

DESIGN SERVICE and ENGINEERING BACKUP: great depth of design and engineering personnel available at United's Beverly, Massachusetts, and Shelton, Connecticut plants give manufacturers the advantage of the development of special eyeleting machines, tools and eyelets to meet specific needs.

SERVICE ON A LOCAL BASIS: from a large network of sales offices and service stations located throughout the country.

BEHIND ALL UNITED SHOE MACHINERY CORPORATION PRODUCTS stands an organization dedicated to serve you by offering the finest service and products available.

To assist you in finding the eyelet for your particular job, this catalog includes as much detail as practical about several classifications of eyelets and the complete line of United eyeleting equipment. The stock status of each eyelet is clearly indicated and the eyelets are classified not only by type but by the industries using them.

The table of contents on the following page will quickly guide the catalog user to the most convenient section. A consolidated list in which all United eyelets appear in order of ascending barrel diameters also is included.

For additional information of the advantages of complete United Eyelet service, call or write the nearest United office.

*Automatic
Fastening Equipment
For more Than
Sixty years*

FASTENER DIVISION UNITED SHOE MACHINERY CORPORATION

SHELTON, CONNECTICUT

Apparel and Accessory Eyelets	12 and 13
Branch Offices	Inside Back Cover
Canvas Eyelets	14
Colonial Eyelets	10 and 11
Colors	11
Consolidated Eyelet List	36 thru 60
Electronic Eyelets	6 thru 9
Facilities	16 and 17
Federal Eyelets	10 and 11
Finishes	11
Flat Flange Eyelets	6 thru 9
Funnel Flange Eyelets	6 thru 9
Grommets and Washers	14
Guards	31
How To Stop the Eyelet Hunt	3
Index to Consolidated Eyelet List	32 thru 35
Introduction	1
Invincible Eyelets	10 and 11
Machinery	
Duplex—Model B	26
Model A	24 and 25
Model C	27
Model F	18 and 19
Model G	20 and 21
Model H	22 and 23
Special Machines	30 and 31
Metal Specialties	16 and 17
Multiple Eyeleting (See Machinery also)	30 and 31
Paper and Packaging Eyelets	15
Plating	7
Raceway Throw-Out and Two-Cycle Clutch	29
Retractable Spindle	28
Rolet Eyelets	10 and 11
Scored Eyelets	10 and 11
Selection Kit	3
Set Die Yielding Mechanism	28
Special Devices	28 and 29
Standardized Eyelets (SE)	3 thru 5
Tag and Calendar Eyelets	15
Telescopic Eyelets and Washers	14
Terminal Wiring	28 and 29
Tripping Devices (Manual and Electrical)	29
Wide Roll Eyelets	10 and 11



ONLY 7 SETS OF TOOLS FOR ALL 65 SIZES

INSTALLED COST
...THE
ONLY
TRUE
MEASURE
OF
EYELET PRICE

Stop the Eyelet Hunt . . . with United's SE Eyelets. Sixty-five standard sizes that meet 90% of all job requirements . . . and only seven sets of tools needed to set all sixty-five sizes (Raceways are standardized, too!). Designers no longer need to plow through literally thousands of eyelets to find the one they want—and then not be sure of availability. Precision made in standard increments of $\frac{1}{32}$ " in both outside diameter of barrel and length under flange, each has a standard relationship in dimension and proportion to every other eyelet in the series. Your design changes are greatly simplified, and much engineering time and money is saved.

Stocked for Immediate Shipment—Purchasing problems are minimized with SE Eyelets. They are stocked for immediate delivery from key points: Fastener Division—Shelton, Connecticut, near New York and at United branch offices in Chicago and Los Angeles. *Low installed eyelet costs* for you are stabilized by constant high volume pro-

duction on the relatively small number of sizes. Inquiry time and money is saved; SE Eyelets are on-the-shelf for immediate shipment.

Speed Production, Cut Set-Ups—Because of United's closely integrated eyelets and eyeleting machines your production department can increase eyelet grip as much as 1,000%—for instance, from .034" to .340" without a single change in drill, punch, or eyelet setting tool. Result: greatly reduced *installed costs* and *true fastener economy*.

And the Perfect Supplement to SE Eyelets—the United Eyelet Selection Kit . . . designed to solve your eyelet selection problems FAST. Invaluable to designers, engineers and purchasing agents, the kit contains generous quantities of each of the sixty-five sizes and lengths in the United Standardized Eyelet Line. With the aid of this Kit, available at a moderate charge, your design and production staffs can quickly and thoroughly investigate the potentialities of eyelets as a better or more economical fastener for your product.

United

STANDA

ONLY 7 SETS



Raceways Also Standardized

SET CAP

SPINDLE

FOR DRILL SIZE AND DIAMETER-READ ACROSS
FOR LENGTH UNDER FLANGE-READ DOWN

HOW TO STOP THE EYELET HUNT

Use standard size holes in work as indicated by chart. Read *across* for corresponding SE eyelet diameter; read *down* for SE eyelet length. Grip guide at extreme right. Standardized setting tools are shown for all eyelets in each column — only 7 sets of tools for all 65 SE sizes.

STANDARDIZED EYELET nomenclature is descriptive: in SE-611, for example—the first numeral "6" is the nominal barrel diameter in 32nds of an inch (6/32"); the digit which follows "11", indicates the barrel length under flange, also in 32nds of an inch (11/32").

MATERIALS

All sizes stocked in brass for immediate shipment; other metals to order.

METAL THICKNESS

Refer to Consolidated List

FINISHES

Brass, nickel and cadmium plate, stock; special finishes to order.

ALL DIMENSIONS IN INCHES

TOLERANCES:

Barrel Diameter $\pm .002$

Length Under Flange $\pm .005$

Flange Diameter $\pm .005$

2/32
.062

3/32
.093

4/32
.125

5/32
.156

6/32
.187

7/32
.218

8/32
.250

9/32
.281

10/32
.312

11/32
.343

12/32
.375

13/32
.406

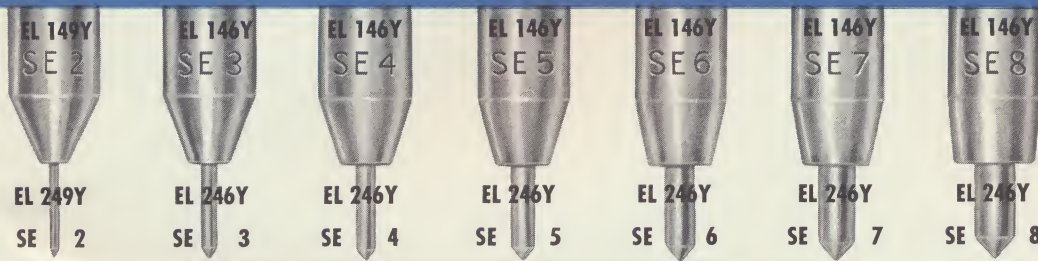
14/32
.437

SET DIE

RDIZED EYELETS

OF TOOLS FOR ALL 65 SIZES

ALL EYELETS IN EACH COLUMN SET BY SAME TOOLS



To order SE setting tools for United eyeleters "G" and "H," use part numbers shown.

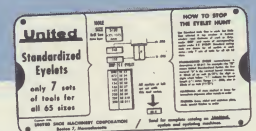
Numbered and fractional drill sizes for each SE diameter indicated at left.

52-2/32 .105 .059	42-3/32 .150 .089	30-4/32 .200 .121	22-5/32 .245 .152	12-6/32 .290 .183	2-7/32 .340 .215	1/4"-8/32 .385 .246
SE 22						
SE 23	SE 33	SE 43	SE 53	SE 63	SE 73	SE 83
SE 24	SE 34	SE 44	SE 54	SE 64	SE 74	SE 84
SE 25	SE 35	SE 45	SE 55	SE 65	SE 75	SE 85
SE 26	SE 36	SE 46	SE 56	SE 66	SE 76	SE 86
SE 27	SE 37	SE 47	SE 57	SE 67	SE 77	SE 87
	SE 38	SE 48	SE 58	SE 68	SE 78	SE 88
	SE 39	SE 49	SE 59	SE 69	SE 79	SE 89
	SE 310	SE 410	SE 510	SE 610	SE 710	SE 810
		SE 411	SE 511	SE 611	SE 711	SE 811
				SE 612	SE 712	SE 812
				SE 613		SE 813
				SE 614		

GRIP GUIDE

Eyelet grip — or thickness which can be held between the flange and setting — varies with the material being eyeleted. Maximum grips listed below are based on test settings made in metal panels and are intended as guides for your use. Sample settings should be made for each new application.

SE-22	.020	SE-63	.040
SE-23	.051	SE-64	.072
SE-24	.082	SE-65	.103
SE-25	.113	SE-66	.134
SE-26	.144	SE-67	.166
SE-27	.176	SE-68	.197
		SE-69	.228
SE-33	.045	SE-610	.259
SE-34	.077	SE-611	.291
SE-35	.108	SE-612	.322
SE-36	.139	SE-613	.353
SE-37	.171	SE-614	.384
SE-38	.202		
SE-39	.233	SE-73	.035
SE-310	.264	SE-74	.067
		SE-75	.098
SE-43	.045	SE-76	.129
SE-44	.077	SE-77	.161
SE-45	.108	SE-78	.192
SE-46	.139	SE-79	.223
SE-47	.171	SE-710	.254
SE-48	.202	SE-711	.286
SE-49	.233	SE-712	.317
SE-410	.264		
SE-411	.296	SE-83	.035
		SE-84	.067
SE-53	.040	SE-85	.098
SE-54	.072	SE-86	.129
SE-55	.103	SE-87	.161
SE-56	.134	SE-88	.192
SE-57	.166	SE-89	.223
SE-58	.197	SE-810	.254
SE-59	.228	SE-811	.286
SE-510	.259	SE-812	.317
SE-511	.290	SE-813	.348



New Eyelet Selector—FREE

Simplify design, purchasing, inventory, and production. Decide the hole size and grip, and set the calculator to find the exact eyelet you need. Send for your free copy today!

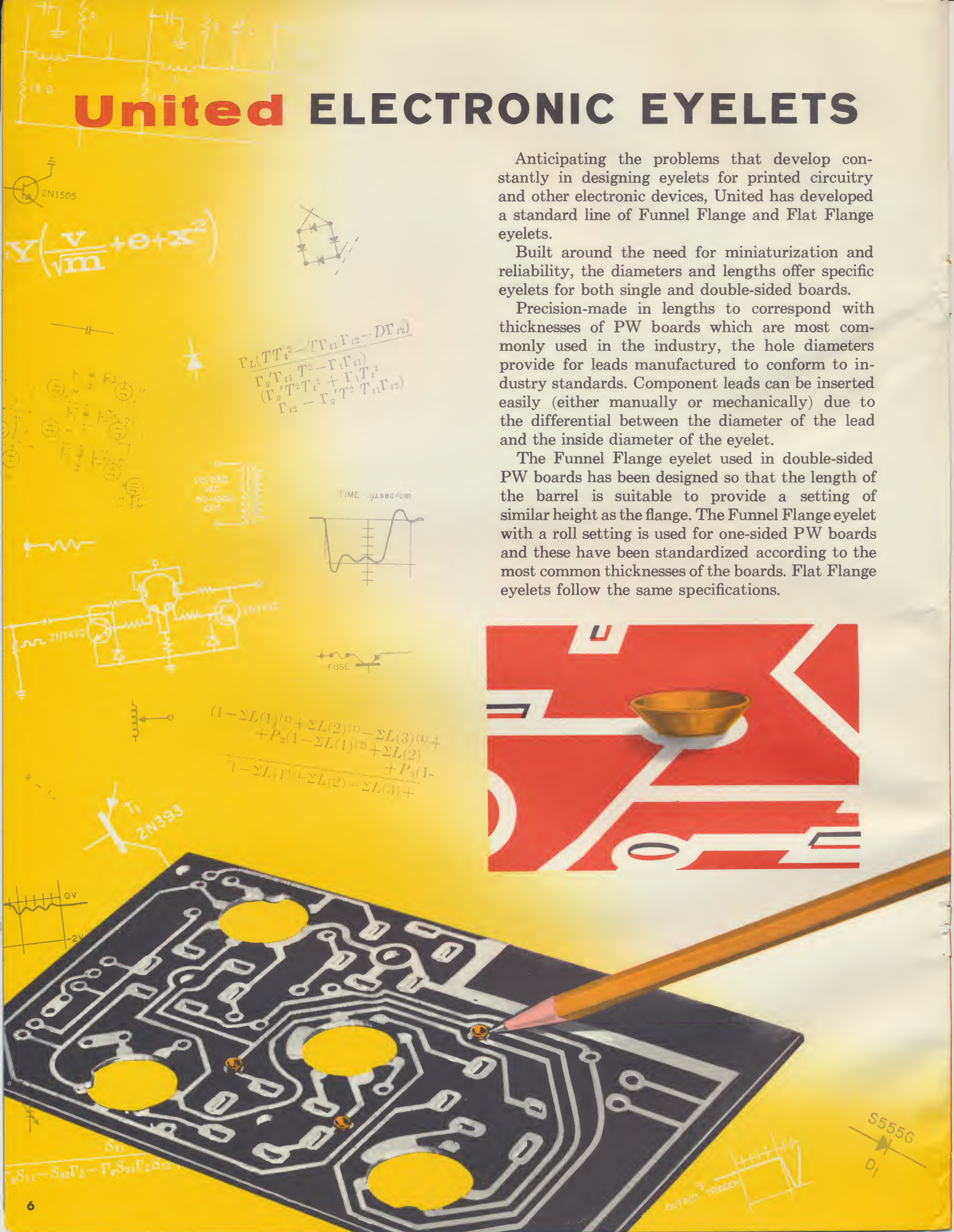
United ELECTRONIC EYELETS

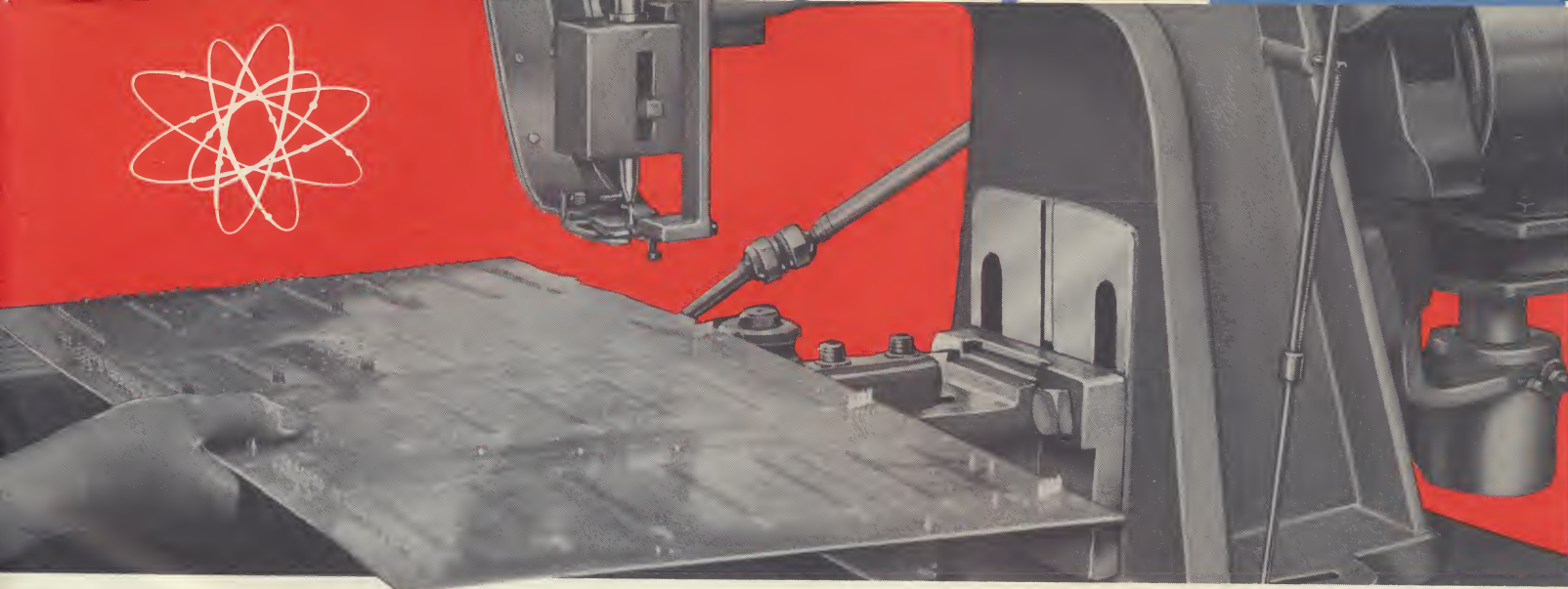
Anticipating the problems that develop constantly in designing eyelets for printed circuitry and other electronic devices, United has developed a standard line of Funnel Flange and Flat Flange eyelets.

Built around the need for miniaturization and reliability, the diameters and lengths offer specific eyelets for both single and double-sided boards.

Precision-made in lengths to correspond with thicknesses of PW boards which are most commonly used in the industry, the hole diameters provide for leads manufactured to conform to industry standards. Component leads can be inserted easily (either manually or mechanically) due to the differential between the diameter of the lead and the inside diameter of the eyelet.

The Funnel Flange eyelet used in double-sided PW boards has been designed so that the length of the barrel is suitable to provide a setting of similar height as the flange. The Funnel Flange eyelet with a roll setting is used for one-sided PW boards and these have been standardized according to the most common thicknesses of the boards. Flat Flange eyelets follow the same specifications.





UNITED STANDARD FUNNEL FLANGE EYELETS USED IN PRINTED WIRING BOARDS

Many authorities, both in governmental agencies and prime contractors have made extensive studies of the use of funnel flange eyelets in printed wiring boards. The result of this research is a new military standard MIL-STD 275A that approves the use of funnel flange eyelets as one of the acceptable methods of making a through connection in PW boards.

United standard funnel flange eyelets are available in diameters to accommodate the various component lead sizes that are used. They are also used with single-sided boards for a stronger termination that permits replacement of a component.

United's standard line of funnel flange eyelets are manufactured with a 45° angle of funnel which affords a good solder fillet between the underside of the flange and board. These eyelets are carried in stock and are available from OFHC* (oxygen free high conductivity) copper or 70-30 commercial-mix brass**.

*Copper—Federal Spec. QQ-C-576b

**Brass—Federal Spec. QQ-B-613B Composition 2



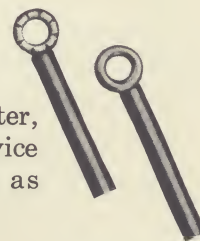
Battery of United Eyeleters used for electronic assembly.

UNITED EYELETING MACHINES

United offers a complete line of Eyeleting Machines to meet the critical requirements of the electronic industry, as well as the everyday problems of the manufacturer. For specific information on Eyeleting Machines see pages 18 to 31.

TERMINAL EYELETS

Set with a Model "G" Eyeleter, fitted with terminal Wiring Device for production rates as high as 2,000 per hour.



TWIN EYELETS

Double barrel eyelets for many current carrying and fastening applications such as barrier strips and terminal blocks are often used in communications. See specifications table on page 60.

SPECIAL METALS, PLATING and PACKAGING

Among the many standard and special metals from which United manufactures eyelets are: aluminum, brass, copper (including oxygen free high conductivity copper), cupro-nickel, Kovar, Monel, nickel, and stainless steel.

Many different platings are supplied. Among those available are: cadmium, gold, hot tin, electro-tin, silver, and solder plate.

United's NEW LINE OF ELECTRONIC FU

STANDARD EYELETS SUGGESTED FOR SINGLE SIDED PRINTED CIRCUITRY (M SET DIE)

Brass and OFHC Copper

Eyelets (Stock Items)	Outside Diameter Barrel ±.002	Length Under Flange ±.005	Flange Diameter and Type ±.005	Metal ** Thickness	Guide for Board Thickness	Recom- mended Hole Size
Flat Flange						
S-6121	.047	.048	.080	.007	1/4	.052
S-6123	.047	.062	.080	.007	1/32	.052
S-6125	.047	.093	.080	.007	1/16	.052
S-6127	.047	.125	.080	.007	3/32	.052
S-6143	.059	.062	.090	.007	1/32	.067
S-6145	.059	.093	.090	.007	1/16	.067
S-6147	.059	.125	.090	.007	3/32	.067
Funnel Flange						
S-6023	.047	.062	.080	.007	1/32	.052
S-6025	.047	.093	.080	.007	1/16	.052
S-6027	.047	.125	.080	.007	3/32	.052
S-6043	.059	.062	.095	.007	1/32	.067
S-6045	.059	.093	.095	.007	1/16	.067
S-6047	.059	.125	.095	.007	3/32	.067
S-6049	.059	.156	.095	.008	1/8	.067

STANDARD EYELETS SUGGESTED FOR DOUBLE SIDED PRINTED CIRCUITRY (FF SET DIE)

Brass and OFHC Copper

Funnel Flange

Eyelets (Stock Items)	Outside Diameter Barrel ±.002	Length Under Flange ±.005	Flange Diameter and Type ±.005	Metal ** Thickness	Guide for Board Thickness	Recom- mended Hole Size
S-6062	.047	.053	.080	.007	1/32	.052
S-6064	.047	.085	.080	.007	1/16	.052
S-6066	.047	.118	.080	.007	3/32	.052
S-6082	.059	.053	.095	.007	1/32	.067
S-6084	.059	.085	.095	.007	1/16	.067
S-6086	.059	.118	.095	.007	3/32	.067
S-6088	.059	.153	.095	.008	1/8	.067

**Dimension shown is specification for metal from which eyelet is made.

ADDITIONAL ELECTRONIC EYELETS (BRASS)

Eyelets (Stock Items)	Outside Diameter Barrel ±.002	Length Under Flange ±.005	Flange Diameter and Type ±.005	Metal ** Thickness
S-6204	.050	.140	.085	.007
S-5867*	.059	.088	.095 FNL	.007
S-5872*	.059	.098	.110 FNL	.007
S-5938*	.059	.187	.095 FNL	.008
S-5987	.060	.160	.115 F	.008
S-5988	.060	.160	.150 F	.008
S-5990	.062	.093	.110	.007
S-5989	.062	.125	.190 F	.009
S-5991	.062	.187	.155 F	.009
S-5992	.062	.218	.155 F	.009
S-6203	.062	.218	.195 F	.009
S-6202	.062	.281	.155 F	.009
S-5993	.063	.135	.110	.008
S-5994	.065	.125	.120	.008
S-5995	.065	.175	.190 F	.009
S-5996	.085	.165	.156	.009
S-5997	.086	.188	.156	.009
S-5998	.088	.155	.147	.009
S-5931*	.089	.093	.125 FNL	.0085
S-6240	.089	.125	.125 FNL	.0085
S-5934*	.089	.156	.125 FNL	.0085

NOTE: F=Flat Flange FNL=Funnel Flange

*Also available in Copper

**Dimension shown is specification for metal from which eyelet is made.

offer superior ele

United's Electronic Eyelets were developed essentially to provide dependable through connections for PW boards. Excellent for the electronic industry as high speed production connectors, these eyelets are made from brass or from oxygen free, high conductivity electrolytic copper. Exhaustive tests show that the United Funnel Flange and Flat Flange methods of through connection provide superior electrical performance under severe operating conditions.



Typical printed circuit eyeletting operation on Model "G" Eyeletting Machine.

Funnel Flange and Flat Flange Eyelets

Electrical performance

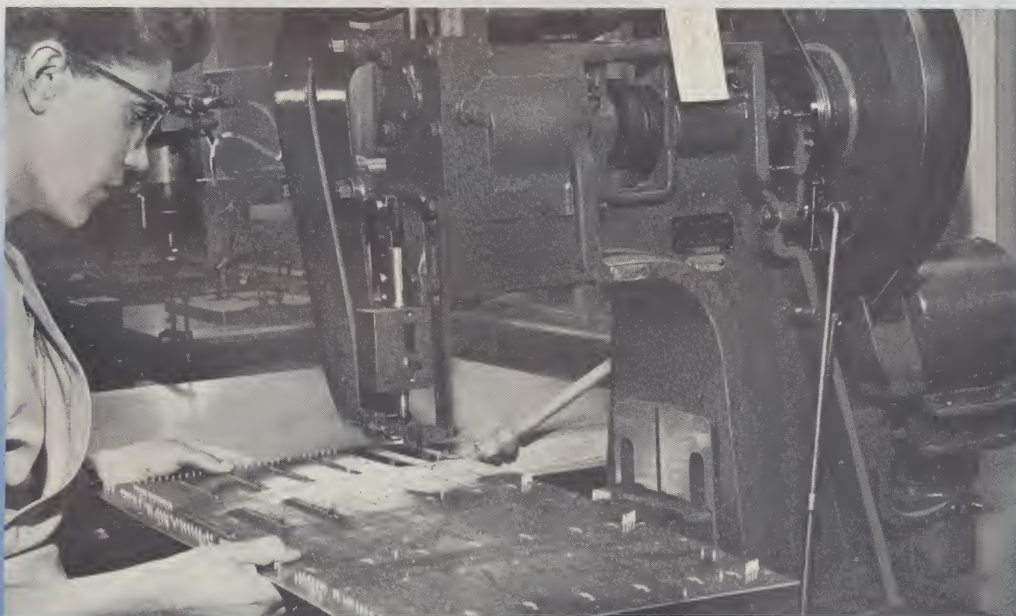
There are many advantages in using United Electronic Eyelets:

- **Low Machinery Cost...** Eyelets can be fed and set automatically with United Eyeleting Machines, yet the acquisition cost of machinery is low. In addition, United Eyeleting Machines are easy to operate with a minimum of operating instruction.
- **Quality Control...** Visual inspection of completed board is simplified when United Electronic Eyelets are used.
- **Added Reliability...** United Electronic Eyelets increase reliability in PW boards in case of extreme shock, changes of temperature and vibration.
- **Design Flexibility...** United Funnel Flange and Flat Flange eyelets afford the engineer greater flexibility in design. Since eyelets come in numerous lengths and several diameters, the designer can select the eyelet most suited to his purpose... and even after the original design is completed, the variety of lengths immediately available allow design modification when needed.
- **Low installed cost of United eyelets...** In comparison to other methods of PW board connections, use of United Electronic Eyelets offers greater reliability and more economy. United machinery and equipment is flexible—can be changed easily from one size eyelet to another through the use of interchangeable raceways and setting tools... and United Funnel Flange and Flat Flange eyelets are inexpensive to buy and use.
- **Complete Eyeleting Service...** Co-ordination of all phases of eyeleting is insured by the long standing United policy of complete service including stock and made to order eyelets and standard and special eyeleting machines.

United Electronic Eyelet Selection Kit



Invaluable to designers and engineers in the Electronic industry, this kit contains over 15,000 of United Electronic eyelets of the 21 standard sizes and lengths in the United Electronic line. Now available—Write for further information.

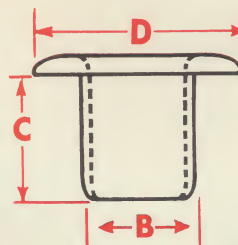
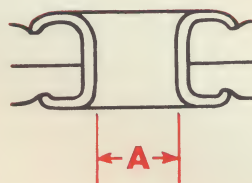
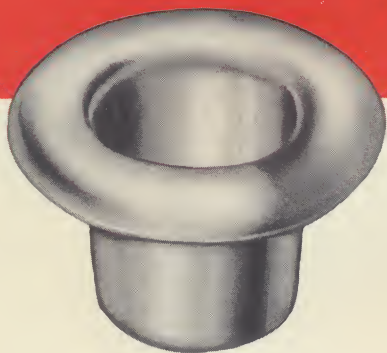


Eyeleting contacts on rotary switches with Model "G" equipped with Set Die Yielding Mechanism and Retractable Spindle.

Funnel Flange Eyelets being inserted into large printed wiring board on Model "F" Eyeleter.

United INVINCIBLE and ROLET

Wide Roll Setting Eyelets



WIDE ROLL SETTING

Invincible® and Rolet® eyelets are ideal when you need to set eyelets with a smooth, uniform unbroken roll that is as wide as possible.

Important for many soft goods applications, these features are especially desirable for apparel. These eyelets are also often used as fasteners in many other applications. The wide unbroken roll of Invincible and Rolet eyelets provides increased

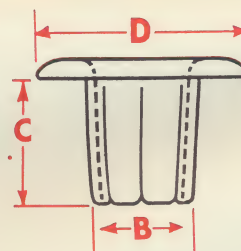
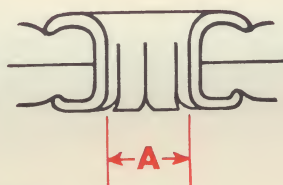
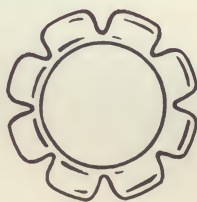
strength and security of eyelet in work as well as improved appearance and smoothness.

Both Invincible and Rolet are made in regular lengths in both aluminum and brass in the sizes indicated.

Long Junior® and No. 1 Klondike® roll setting eyelets are larger sizes for use in heavy fabrics. They are stocked in plain finish and in 12 japanned colors.

United COLONIAL and FEDERAL

Scored Setting Eyelets



SCORED SETTING

More economical than roll setting eyelets, Colonial® and Federal® scored setting eyelets are used where as wide a setting as possible is needed and the appearance and smoothness of the setting is not an important consideration. They are made from selected alloys with eight longitudinal scores inside the barrel so that the eyelet setting is formed into eight prongs.

Since the prongs of the setting can be imbedded in the work, Colonial and Federal scored setting

eyelets are especially recommended for use in rubber or other stretchy materials in which holes might otherwise become distorted. They are also widely used in light fabrics, plastics, and other sheet materials as well as for electrical terminals, see pages 7, 28 and 29.

Colonial and Federal eyelets are made in aluminum, brass, and steel. Federal eyelets are stocked in 29 enameled colors and Colonial eyelets are stocked in 12 japanned colors. Dimensions and finishes at right.

FINISHES

ENAMELED COLORS

Invincible roll setting eyelets and Federal scored setting eyelets are individually roller coated with several coats of the finest synthetic resin enamel and are baked to a hard, colorfast, abrasion resisting finish. These superior eyelets are blemish-free for mirror-smooth appearance. They are stocked for immediate shipment in 29 standard colors.

JAPPANED COLORS

Rolet roll setting eyelets and Colonial scored setting eyelets are colored in bulk by tumbling and spraying with several coats of synthetic resin enamel. This process provides a durable finish completely satisfactory for many purposes where the extra quality of enameled colors is not needed. They are stocked for immediate shipment in 12 standard colors.

Wide Roll Setting Eyelets Stocked for Immediate Shipment

Actual Size Flange	Size	-A- Inside ¹ Diameter When Set	-B- Outside Diameter Barrel ± .003	-C- Length Under Flange ± .008	-D- Flange Diameter ± .006	Metal ² Thickness
	5 Invincible*	.095	.124	.097	.195	.012
	4 Invincible*	.123	.156	.097	.235	.012
	3 Invincible*	.123	.156	.120	.255	.012
	2 Invincible*	.143	.178	.138	.300	.013
	1 Invincible*	.163	.200	.147	.348	.014
	AA Invincible*	.183	.225	.160	.388	.015
	00 Invincible*	.238	.275	.152	.495	.016
	Long Junior	.255	.296	.220	.505	.016
	1 Klondike	.311	.350	.187	.592	.016

VULCAN FINISH COLORS

All enamel and japan colors are also available on request in a Vulcan finish which resists change of color during vulcanizing. Ask the United man.

SPECIAL COLOR SERVICE

In addition to the standard colors carried in stock, special colors to match or contrast with materials to be eyeleted are developed on request. To take advantage of this Special Color Service, send a sample of the desired color to the nearest United Office.

OTHER FINISHES

Plain brass eyelets are stocked in clear lacquer finish to prevent tarnish. They are also available without lacquer.

All colored aluminum eyelets are anodized to resist corrosion and to provide an improved enamel bond. Nickel and other plated finishes are furnished when specified on both brass and steel.

Scored Eyelets Stocked for Immediate Shipment

Actual Size Flange	Size *	-A- Inside ¹ Diameter When Set	-B- Outside Diameter Barrel ± .003	-C- Length Under Flange ± .008	-D- Flange Diameter ± .006	Metal ² Thickness
	3 Federal	.123	.156	.125	.258	.012
	2 Federal	.143	.177	.140	.303	.013
	1 Federal	.163	.202	.150	.348	.014
	AA Federal	.183	.224	.160	.388	.015

NOTES—WIDE ROLL

*Rolet (japanned finish) stocked in these same sizes.

¹Based on eyelet set under normal conditions with standard setting tools.

²Specification for metal from which eyelet made.

NOTES—SCORED

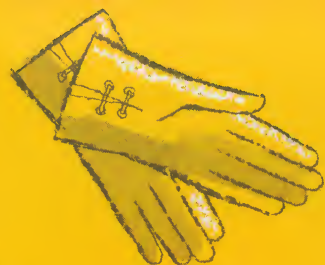
*Colonial (japanned finish) stocked in these same sizes.

¹Based on eyelet set under normal conditions with standard setting tools.

²Specification for metal from which eyelet made. All dimensions in inches.

All dimensions in inches.

Specifications shown are for regular length aluminum eyelets; for other lengths and materials see Consolidated List, pages 36 through 60.



EYELETS *in apparel and accessories*



Telescopic Eyelet and Washer



United Eyelets are often used in apparel for purely decorative purposes because of the many attractive colors available. In addition, eyelets have been recognized as the best way to obtain proper fit of some garments. Some of the many applications for United Eyelets in the apparel industry include belts, foundation garments, brassieres, and practical, decorative ventilation for rainwear, hats, and caps.

A varied assortment of United Eyelets are used in apparel . . . blind or "invisible" eyelets which can be seen only from one side of the garment . . . scored Belt eyelets in aluminum, brass and steel . . . smooth roll setting 205 eyelets for corsets . . . and the 853 for brassiere straps. Other eyelets frequently used are: Invincible and Rolet wide roll eyelets and Federal and Colonial scored setting eyelets for hats and caps . . . the 11 Special for belts . . . telescopic eyelets for light fabrics subject to strain as in ski clothes . . . flat-headed eyelets for raincoat ventilation.

Invisible eyelets are stocked in 29 enameled and 12 japanned colors in aluminum, brass and steel are also available in the usual plain or plated finishes. Belt eyelets are stocked in a large variety of japanned and enameled colors, and in the usual plain or plated finishes.

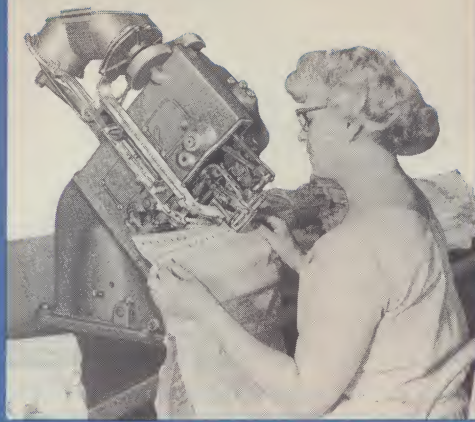
The 205 eyelet for corsets is made in both aluminum and in zinc, while the 853 is designed especially for brassiere tape and is made in aluminum only. They are supplied in japanned colors including white, nude, and other delicate shades. They are also available in the usual plain or plated finishes.



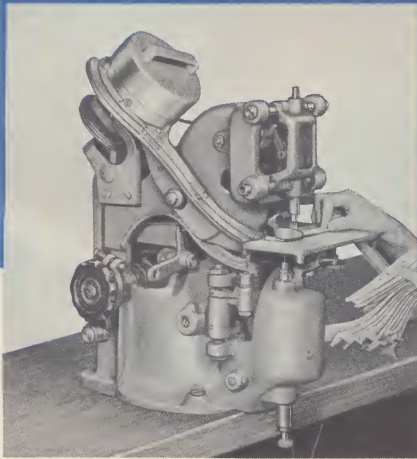
Illustration
Actual Size



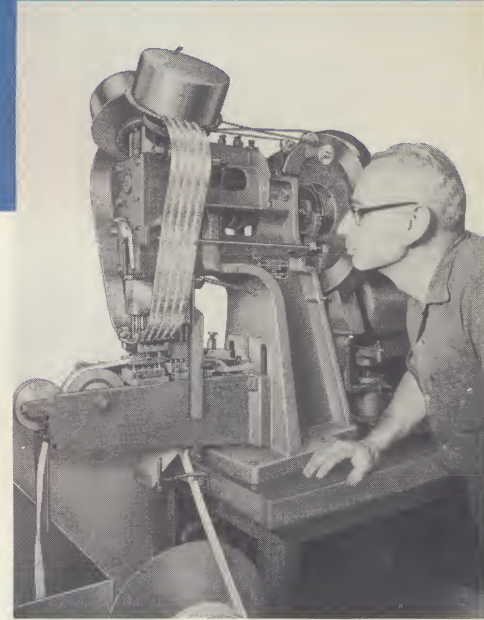
United Duplex Eyeleter Model "B" sets 800 accurately spaced eyelets per minute in corset.



More than 1,000 eyelets per minute set by Model "F" in brassiere tape automatically fed from reel.



Cost of belt eyeleting cut to minimum as Model "C" sets 500 eyelets per minute.



Name or Number	Inside ¹ Diameter When Set	Outside Barrel Diameter ± .003	Length Under Flange ± .008	Flange Diameter ± .006	Metal ² Thickness
SURFACE EYELETS					
205 Aluminum	.164	.205	.138	.285	.014
Belt Aluminum	.169	.185	.140	.298	.0085
853 Aluminum	.176	.196	.085	.273	.0085
INVISIBLE EYELETS					
043 Blind Aluminum	.118	.130	.125	.235	.014
143 Blind Aluminum	.130	.143	.125	.258	.014
115 Blind Aluminum	.136	.156	.130	.298	.014
1 Jumbo Blind Aluminum	.194	.209	.130	.333	.014

SPECIAL EYELETS AND SERVICES

United also manufactures a variety of Tag and Calender Eyelets which are often used as hole reinforcements and for ventilation in hats, rainwear, etc. Telescopic Eyelets and Washers are used when the utmost in strength is required such as in sporting apparel.

In addition, United offers its services in developing special eyelets and eyeleting machinery to meet the varying requirements of the apparel trade.

← All specifications shown are for aluminum eyelets only; for other materials, see Consolidated List, pages 36 through 60.

Notes:

Specifications shown for aluminum eyelets and washers only; brass also available from stock.

¹Based on eyelet set under normal conditions with standard setting tools.

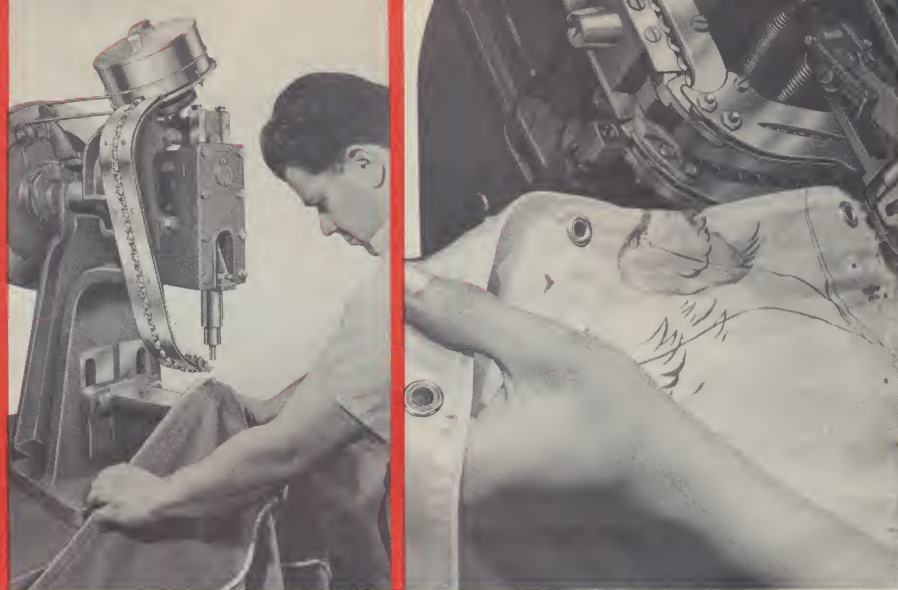
²Specification for metal from which eyelet is made. All dimensions in inches.

All dimensions in inches.

Ask the nearest United office for your free sample color card.



United Telescopic Eyelet before and after setting.



United

EYELETS FOR CANVAS, PLASTICS AND OTHER SHEET MATERIALS

For hole reinforcement in the heaviest canvas or the lightest plastic, United has the answer. A comprehensive line of eyelets, grommets and washers, telescopic eyelets and washers closely integrated with superior United eyelet setting equipment provide the best solution to your eyeleting problems. Among typical uses: tents, awnings, tarpaulins, flags, banners, shower curtains, towels, work aprons, sails, beach bags, mattress borders, large sample swatches, large posters, and sporting equipment.

In addition to the eyelet types outlined below, the Klondike and Long Junior styles included with other

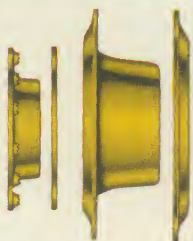
wide roll eyelets on page 11 are also frequently used for this type of work.

The United Model "F" eyeleter (above, center) is universally recognized as the best equipment for this type of work. It is usually equipped with the Two-Cycle Clutch and Raceway Throw-Out fittings described on page 29.

United Telescopic Eyelets are used for the same types of work in smaller sizes. As illustrated, the lower part or washer of the mating Telescopic Eyelet slips over the barrel of the upper part, and when set both parts are clinched firmly together. The duplex Eyeleting Machine Model B (above, right) is used for automatic insertion.

STOCKED FOR IMMEDIATE SHIPMENT

GROMMETS & WASHERS



Note:
Stock finishes: brass, plain and nickel plated; steel, brass and cadmium plated.

TELESCOPIC EYELETS



Notes:
Specifications shown for aluminum eyelets and washers only; brass also available from stock.

*When set in combination.
¹Specification for metal from which eyelet made all dimensions in inches.

	Name or Number and Material	Inside Diameter When Set	Outside Diameter Barrel ± .003	Length Under Flange ± .008	Flange Diameter ± .006	Metal ¹ Thickness
GROMMETS & WASHERS	0—Brass & Steel	.262	.295—.268	.150	.547	.0095
	1—Brass & Steel	.315	.360—.315	.181	.668	.0095
	2—Brass & Steel	.406	.455—.422	.222	.828	.0105
	4—Brass	.505	.625—.525	.305	1.063	.017
	Towel, indented, Brass	.488	.522	.143	.878	.011
	Towel, not indented Brass Plated Steel	.488	.518	.143	.878	.009
TELESCOPIC EYELETS	1—Invincible Eyelet	.163*	.200	.147	.348	.014
	1—Telescopic Washer	.163*	.232	.090	.390	.013
	AA Invincible Eyelet	.183*	.225	.160	.388	.015
	AA Telescopic Washer	.183*	.255	.095	.440	.013
	404 Telescopic Eyelet	.188*	.222	.160	.453	.014
	202 Telescopic Washer	.188*	.256	.120	.450	.013
	505 Telescopic Eyelet	.259*	.297	.150	.540	.016
	303 Telescopic Washer	.259*	.335	.097	.550	.013

United EYELETS FOR PAPER PRODUCTS & PACKAGING

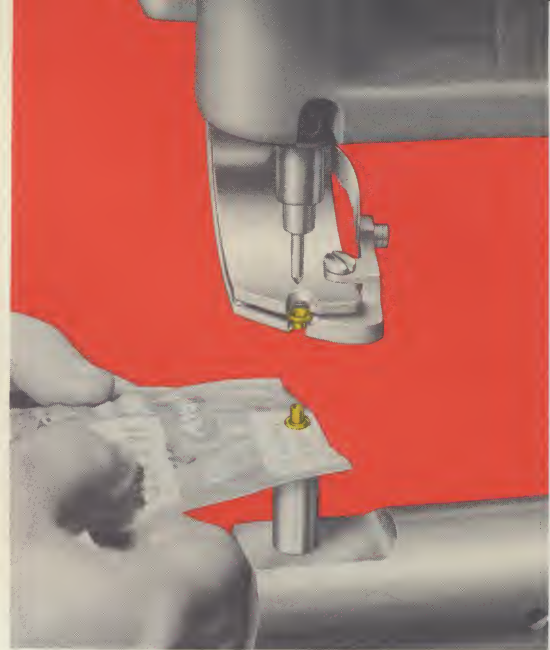
In addition to reinforcement of holes in tags, calendars, and file folders, they are also widely used as pivots, rivets, and in combination with clasps and other types of fasteners.

Among the many other applications for these eyelets in graphic arts and paper products are: button and string closure envelopes, duo-tang binders and folders, loose-leaf notebooks, pocket calculators and conversion charts, structural paperboard products, paper novelties, and the binding of legal documents.

The tamperproof closure and hanging convenience provided by these eyelets makes them ideal for retail rack packaging. In many cases the use of an eyelet in a plastic bag as illustrated is actually the most economical way to do the job.

All of the eyelets listed are made with a flat flange and are designed to set as flat as possible with little or no projection above the surface of the work. These characteristics combine to reduce thickness of the finished article for improved stacking, packing, or filing. The eyelets shown are also of the roll setting type — that is, they are designed to set in a smooth unbroken ring.

With the proper setting tools these eyelets will even punch their own hole in many applications in this field.



Hole punched and eyelet set in one easy operation for smooth tamperproof closure



STOCKED FOR IMMEDIATE SHIPMENT

Illustrations Actual Size	Name or Number and Material	Inside ¹ Diameter When Set	Outside Diameter Barrel ±.003	Length Under Flange ±.008	Flange Diameter ±.006	Metal ² Thickness
 B Long	B Long—Brass	.134 (1/8)	.156	.127	.216	.0125
	125 Aluminum	.135 (1/8)	.157	.100	.217	.0085
 2530	135 Aluminum	.135 (1/8)	.157	.120	.217	.0085
	145 Aluminum	.135 (1/8)	.157	.135	.217	.0085
	95 Tag-Zinc	.168 (3/16)	.195	.089	.257	.015
	742 Aluminum	.176 (3/16)	.196	.090	.255	.0085
	742 Long Aluminum	.176 (3/16)	.196	.105	.255	.0085
	12 Brass	.179 (3/16)	.194	.094	.257	.0115
	S-5847 Zinc	.228 (7/32)	.245	.094	.324	.010
	3/8" Calendar Brass	.242 (1/4)	.265	.130	.363	.013
	3/8" Short Calendar Brass	.242 (1/4)	.265	.101	.363	.011
	2 Calendar Aluminum	.264 (1/4)	.285	.105	.385	.012
	S-5560 Brass	.312 (5/16)	.340	.136	.602	.010
	1/2" Calendar Brass	.320 (5/16)	.355	.134	.453	.012
	1/2" Short Calendar Brass	.320 (5/16)	.360	.107	.453	.0115
	1 Calendar Aluminum	.330 (5/16)	.355	.110	.450	.012
 2530	2530 Brass	.380 (3/8)	.399	.118	.557	.0105
	396 Brass	.409 (25/64)	.435	.094	.555	.008

Notes:

All dimensions in inches.

¹Based on eyelet set under normal conditions with standard setting tool; fractional dimension is nearest equivalent.

²Specification for metal from which eyelet made.

Stocked in aluminum, brass, and low cost zinc as indicated, many of these eyelets are also available in a wide range of japanned colors as well as in nickel and other platings.

Many of these eyelets also available in other materials; see Consolidated List, pages 36 through 60.

For other eyelets with many applications in this field, see United Standardized eyelets (pages 4 and 5), Telescopic eyelets and washers and grommets and washers, page 14, and Invincible and Federal setting eyelets, pages 10 and 11.



Fastener Division Plant,
Shelton, Conn.

J. C. Rhodes Division of Plymouth Cordage Industries,
New Bedford, Mass.



UNITED'S FASTENER DIVISION

The scope of United's facilities—equipment—and manufacturing know-how

United's continued goal is to supply for industry the best quality eyelets and eyeleting machines available. This effort has been achieved by maintaining a versatile array of tools and manufacturing facilities as well as general offices at United's Shelton plant, backed up with engineering services at United's large Beverly, Massachusetts, plant. Finally, United's line includes eyelets produced by the J. C. Rhodes Division of Plymouth Cordage Industries, which produces the finest colored eyelets in the world for apparel. All of these benefits combined enable United to provide top quality products and excellent customer service resulting in lower installed eyeleting cost.

The actual scope of United's experience, facilities and skill in the production of metal specialties in large quantities from practically every workable metal ranges from miniature parts for electronic circuitry to sturdy metal stampings replacing castings as legs for work benches. Other typical items: transistor parts, ball bearing races, structural eyelets, railway equipment stampings, inner cases for watches, electronic instrument parts, clock bezels and garment closures.

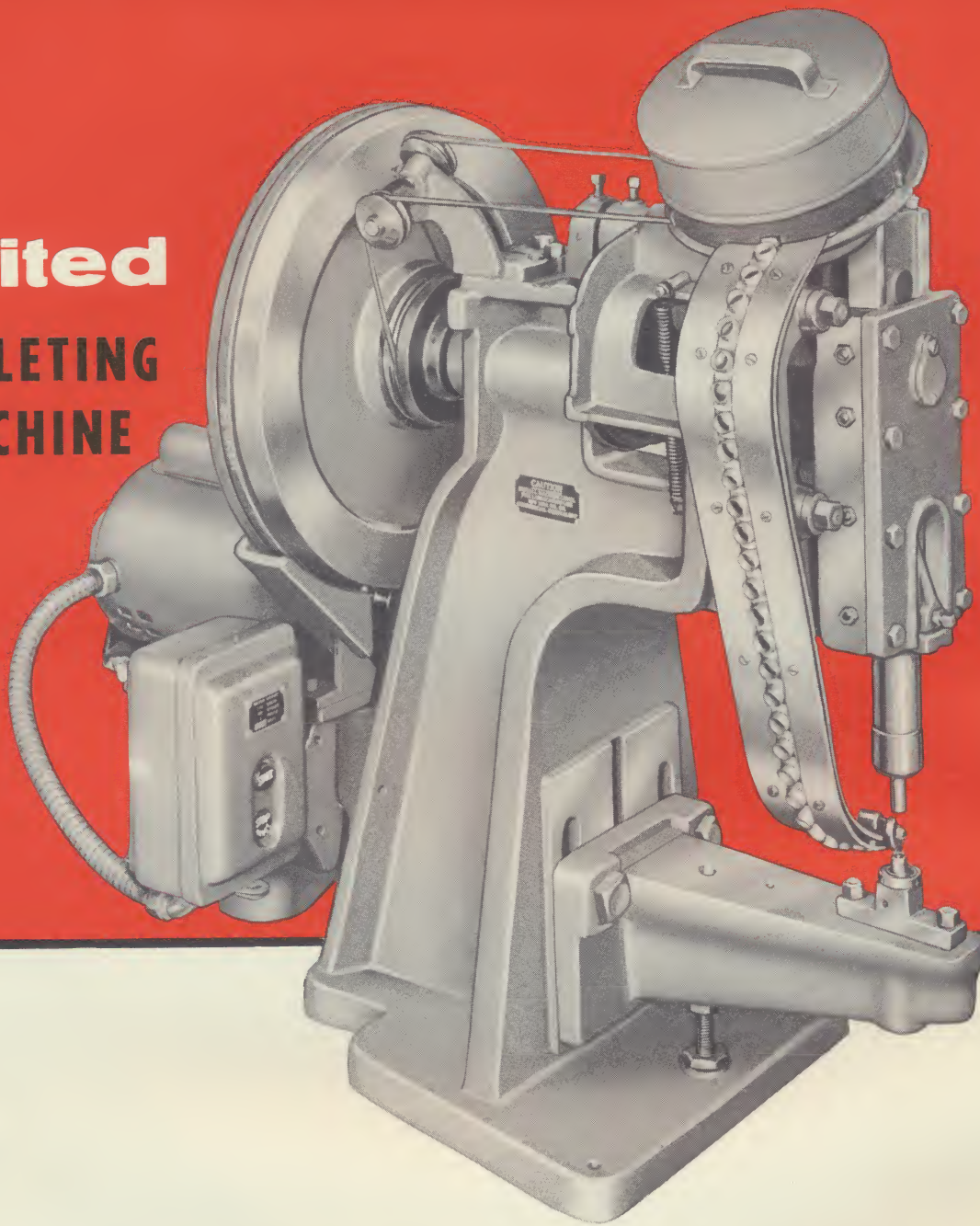
Especially suited for high volume, low cost production United's metal working facilities include many types of equipment with presses ranging in capacity from sub-miniature to 110 tons. When required, parts are heated in automatic conveyor-type austempering furnaces. These special furnaces provide uniform toughness combined with specified hardness.

Estimates on deep drawing, forming, stamping, coining, and tapping will be quickly furnished.

United's Beverly, Mass. Plant

United EYELETING MACHINE

Model F



Its great power, extreme versatility, outstanding accuracy, and unusual durability have earned for United's Model "F" Eyeleter the reputation as the finest eyeleting machine on the market. As many as twelve eyelets — and more — can be automatically fed and simultaneously set with this precision machine. And its almost 2½ tons of setting pressure ensures uniform setting of all eyelets every time.

Equipped with standard raceways, it will automatically feed and set all sizes of eyelets from the smallest miniature to the No. 5 Grommet as fast as the operator can feed the work. With special fittings it will handle even larger sizes. Raceways and setting tools for different sizes of eyelets are readily interchangeable. The raceway rails are formed from corrosion-resistant stainless steel to ensure free-running eyelets under all conditions.

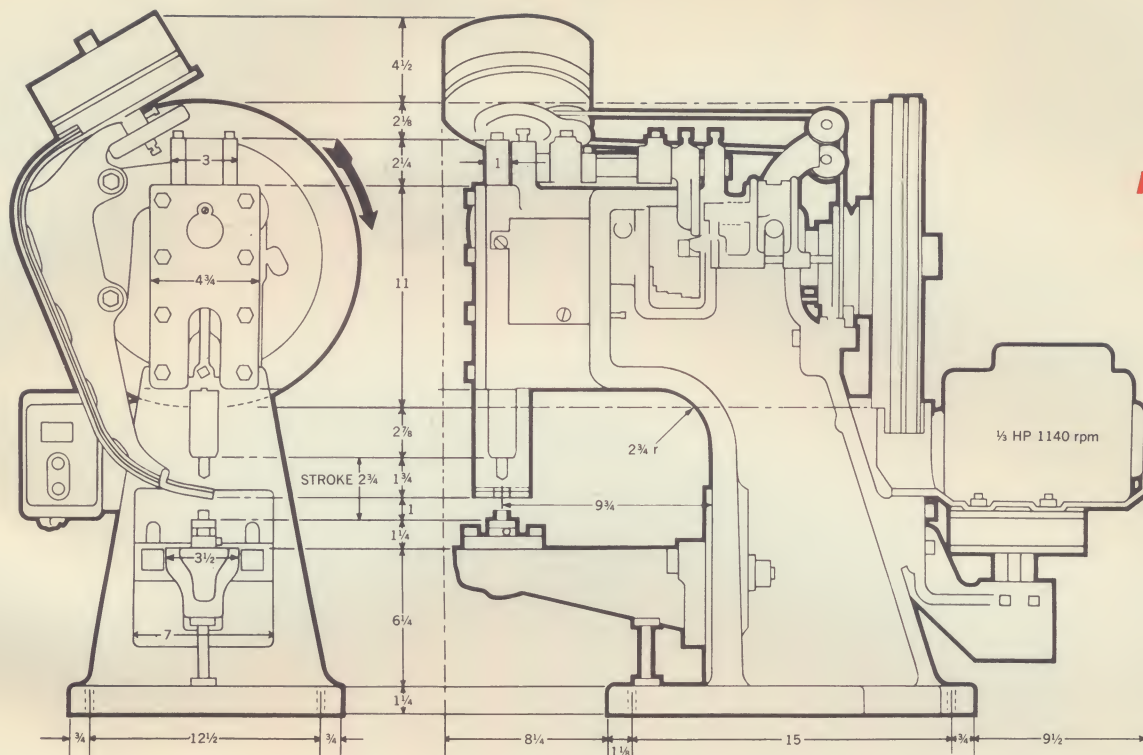
The large (1" x 3" x 12") set bar operating in a 9½" gibbed way, an adjustable die block and the unusually rigid frame combine to maintain exact setting tool alignment.

As with other United eyeleting machines, holes can often be made in the work at the same time the eyelet is set with special punching or piercing setting tools. In other materials it is necessary to pre-drill or punch prior to eyeleting.

Because of the flexibility designed into the machine, single or multiple raceways can be placed either to the right or left or on both sides of the machine to feed and set eyelets in an almost infinite variety of patterns. Different sizes and types of eyelets can be automatically fed and set simultaneously. When desired, the machine can be easily integrated with conveyors, turntables, indexing heads, loading devices, or other production mechanisms performing related work.

The machine can even be equipped to punch holes, feed and set eyelets, as well as feed the work automatically in reel form.

Years of use under the most adverse conditions in all types of applications have repeatedly demonstrated the unusual durability of this machine.



MODEL F
SYMBOL
EMF

All dimensions in inches; will vary somewhat depending on adjustments and fittings.

DIMENSIONS AND SPECIFICATIONS

SIZE	Bench space: 20" wide x 34" deep x 36" high Crated (domestic shipment with 110 V motor): 27" x 39" x 40"
WEIGHT	Net: 476 lbs. Crated (domestic shipment with 110 V motor): 580 lbs.
SPEED	135 r.p.m.
POWER	1/3 H.P., 1140 r.p.m. motor available as extra equipment in types to fit your electrical service (weight of motor crated: 50-60 lbs.)
EYELET SIZE RANGE	Standard raceways: .059" barrel diameter to No. 5 Grommet (1.250" flange diameter) Special raceways: .047" barrel diameter to largest practicable flange diameter

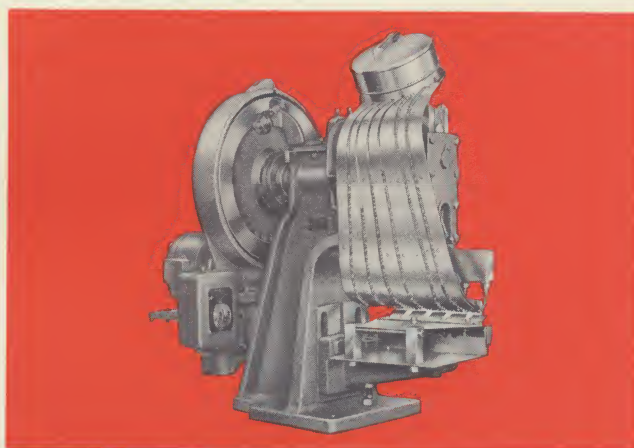
STANDARD EQUIPMENT†

Complete with single raceway and setting tools for any one size eyelet, motor drive equipment (without motor) and thermal overload switch box with manual reset, drive belts, treadle rod and treadle. Also available without raceway or setting tools.

OPTIONAL EQUIPMENT

Gauges for work alignment; piercing, punching, or special setting tools; retractable spindle; set die yielding mechanism; special horns, punches, or dies; additional standard or special right- or left-hand raceways; additional standard or special setting tools; manual or pedal electronic trip; right- or left-hand multiple raceways; and Raceway Throw-Out and Two-Revolution Clutch.

†If machine is fitted for United Standardized Eyelet, it will set all other United SE sizes of same barrel diameter; see pages 4 and 5.

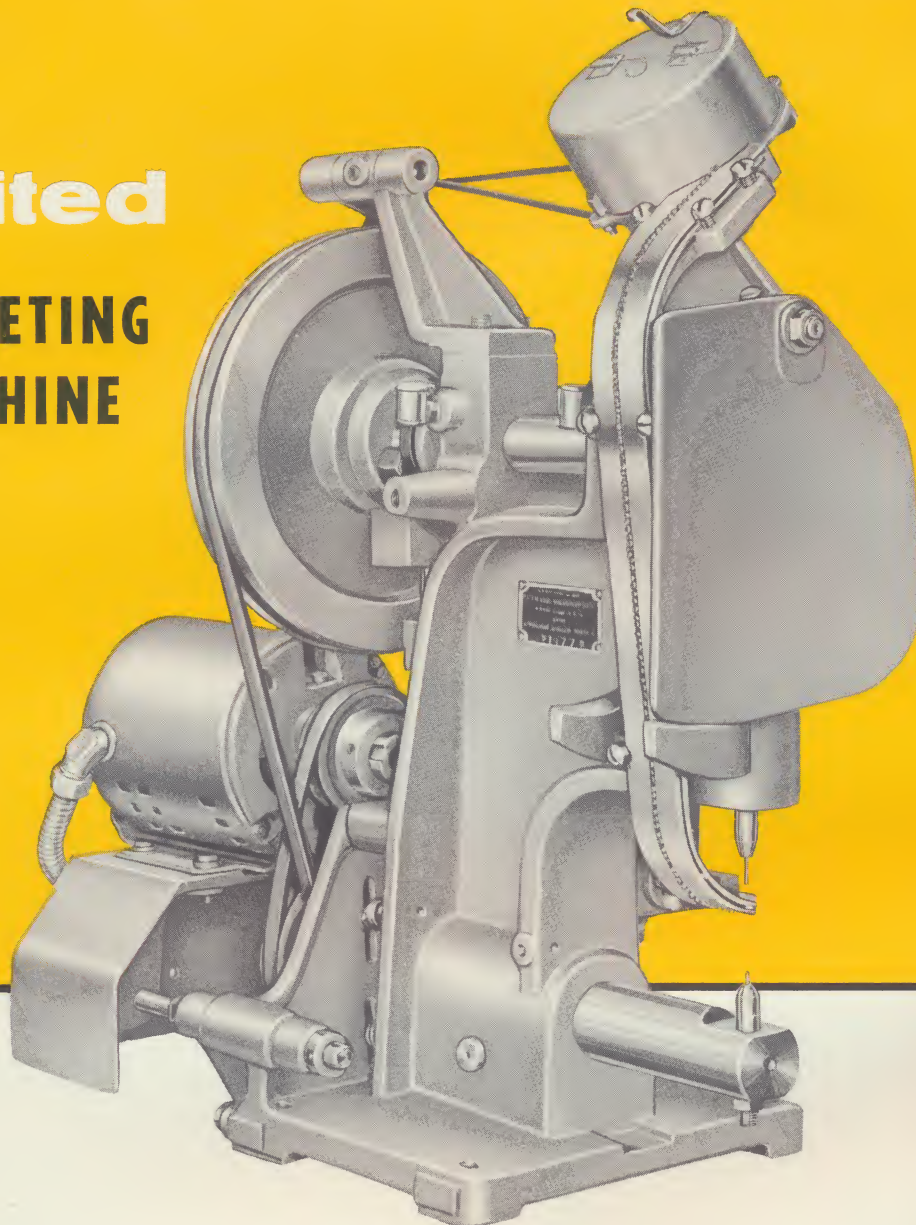


Special Model "F" pierces six holes and sets six eyelets simultaneously.

United

EYELETING MACHINE

Model G



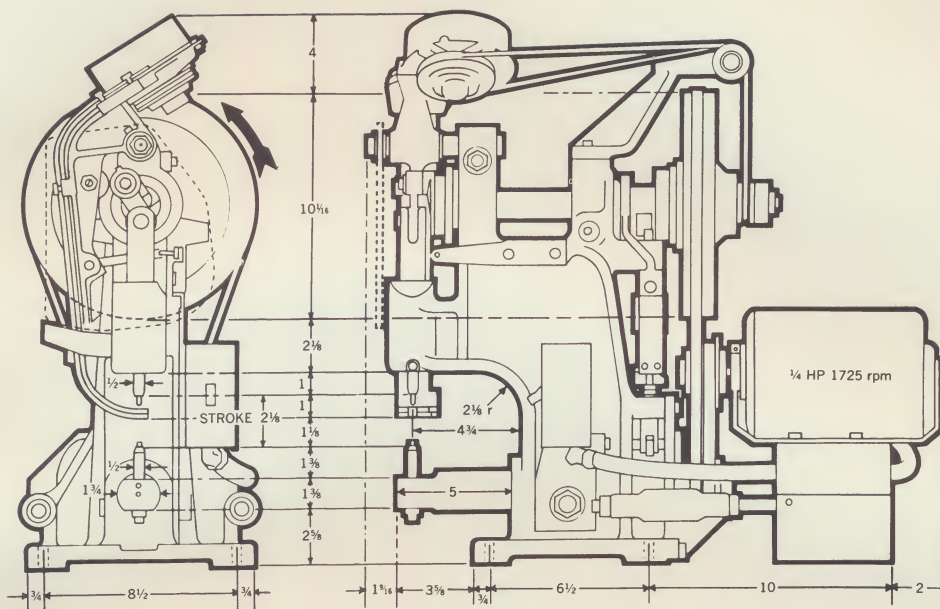
Effortless, trouble-free eyeletting at high speed is ensured with United's motor driven Model "G" Eyeletting Machine, which feeds eyelets automatically and can set as many as 200 per minute. The compact, two-step "V" belt motor drive is mounted on a sturdy frame for efficient, smooth, quiet operation. Operator training time is practically eliminated by the one-cycle, non-repeating clutch which also provides greatly improved safety conditions. Raceways and setting tools for different sizes of eyelets are readily interchangeable, and the rigid steel horn is easily adjustable for setting tool alignment. Both the deep-drawn seamless eyelet box and the raceway rails are formed from corrosion-resistant stainless steel to ensure free-running eyelets under the most adverse conditions.

Model "G" raceways and setting tools provide automatic feeding for a wide range of eyelet sizes and types: from those as small as .047" barrel diameter up to those with flange sizes as large as $\frac{5}{8}$ ". The high-power mechanism delivers so much pressure that hand-fed

grommets as large as the No. 5 with a 1.250" flange diameter are easily set.

So versatile is United's Model "G" Eyeletting Machine that it is often used for many other operations including punching, piercing, cutting, and staking, or similar fastening operations. In many materials, holes can be made in the work at the same time the eyelet is set with special punching or piercing setting tools. In other cases, it is necessary to pre-drill or punch prior to eyeletting.

A wide range of special fittings and devices are available for even more effective use of this machine. Among these are: gauges for work alignment, combination piercing or punching setting tools, punches and dies, set die yielding mechanism for use when eyeletting fragile materials, retractable spindles for longer tool life, and an ingenious device for eyeletting the terminal ends of wires. In addition, the machine can be equipped with multiple raceways for feeding and setting two eyelets at once.



MODEL G

SYMBOL

EMG

All dimensions in inches; will vary somewhat depending on adjustments and fittings.

DIMENSIONS AND SPECIFICATIONS

SIZE	Bench space: 12" wide x 24" deep x 27" high Boxed (domestic shipment with 110 V motor): 16" x 30" x 30"
WEIGHT	Net: 171 lbs. Boxed (domestic shipment with 110 V motor): 210 lbs.
SPEED	200 r.p.m.
POWER	1/4 H.P., 1725 r.p.m. motor — available as extra equipment in types for your electrical service
EYELET SIZE RANGE	Raceway feed: .047" barrel diameter to 5/8" head diameter Manual feed: smallest practicable to No. 5 Grommet (1.250" flange diameter)

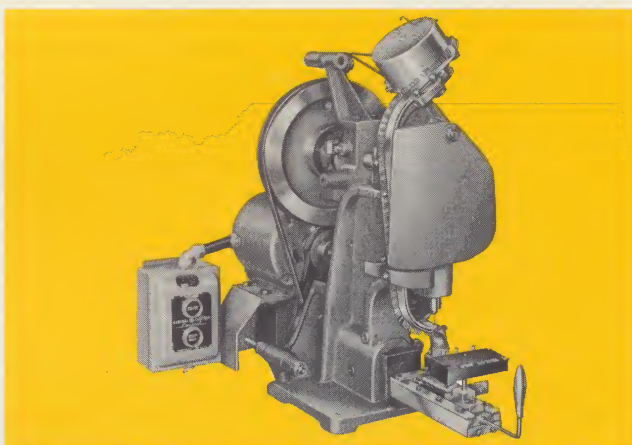
STANDARD EQUIPMENT†

Complete with single raceway and standard setting tools for any one size eyelet, motor drive equipment (without motor) and thermal overload switch box with manual reset, 1/2" "V" belt, treadle rod and treadle. Also available without raceway or setting tools.

OPTIONAL EQUIPMENT

Gauges for work alignment; piercing, punching, or special setting tools; retractable spindle; set die yielding mechanism; special horns, punches, or dies; additional standard or special raceways; additional standard or special setting tools; manual or pedal electronic trip; left hand multiple raceways and other devices for special requirements such as the Terminal Wiring Device.

†If machine is fitted for United Standardized Eyelet, it will set all other United SE sizes of same barrel diameter; see pages 4 and 5.

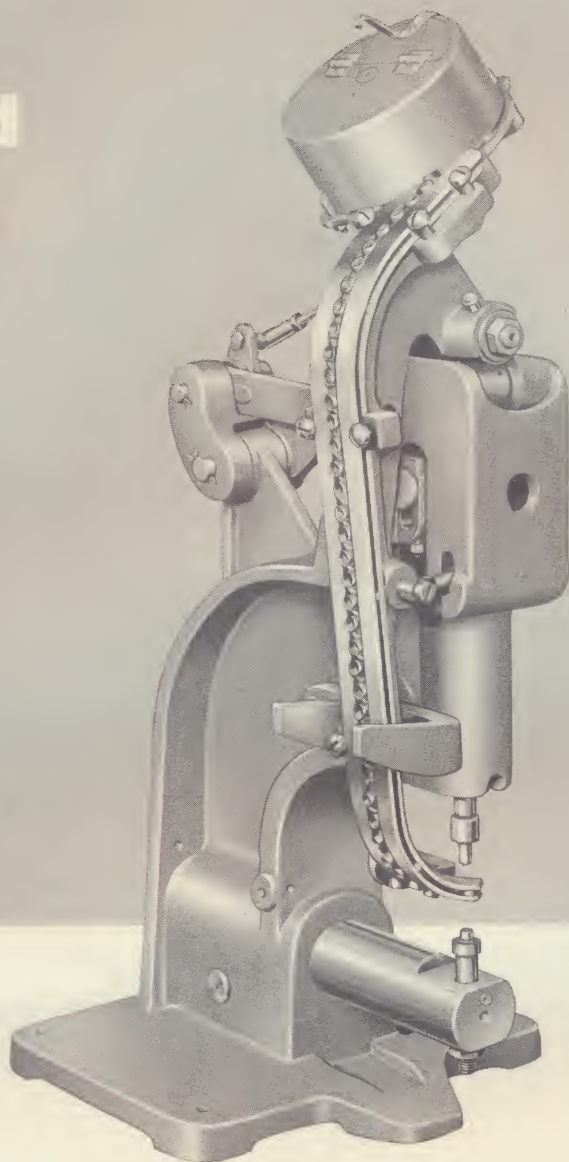


Semi-automatic Model "G" equipped with sliding die block and microswitch trip for terminal block eyeleting.

United

EYELETING MACHINE

Model H



A sturdy combination of foot-power economy with the accuracy and versatility usually only found in powered equipment, United's Model "H" Eyeletting Machine is ideal for many applications. Its rigid frame and precision-made parts ensure years of superior performance, and the high mechanical advantage of the simple trouble-free mechanism means that operators set even the largest eyelets easily and quickly. The heavy steel horn is adjustable for setting tool alignment. All raceways and setting tools for different eyelet sizes are readily interchangeable. Both the deep-drawn seamless eyelet box and the raceway rails are formed from corrosion-resistant stainless steel to ensure free-running eyelets under the most adverse conditions.

Equipped with raceway as illustrated, the machine will automatically feed and set, as fast as the operator presses the treadle, a wide range of sizes and types: from miniature eyelets with barrel diameters as small as .059" to grommets with flange diameters as large

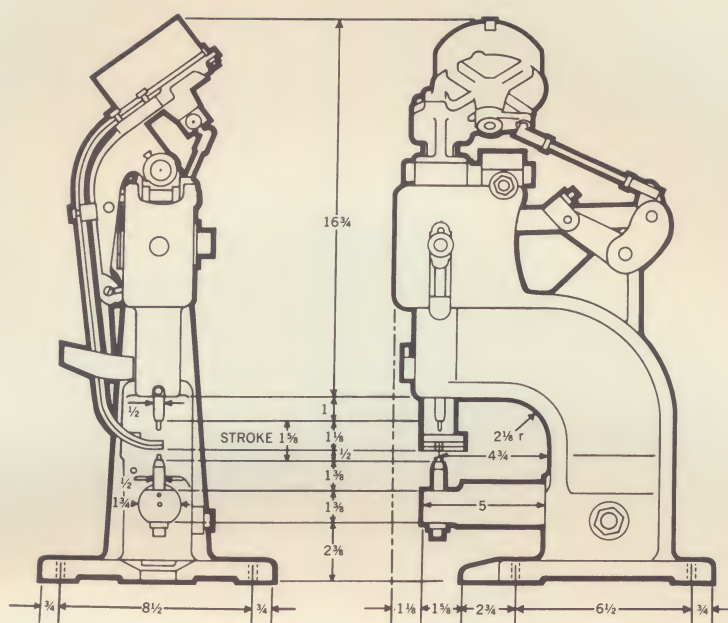
as $\frac{5}{8}$ ". It can also be purchased without raceway for manual feeding and will set even large grommets.

In many materials, holes can be made in the work with special punching or piercing setting tools. In other cases, it is necessary to pre-drill or punch prior to eyeletting. In addition, users of United's Model "H" Eyeletting Machine find it effective for many other kinds of work such as punching, cutting, staking or similar fastening operations.

Many special fittings and devices are available for use with this versatile machine, including retractable spindles for longer tool life, set die yielding mechanism for eyeletting fragile materials, gauges for alignment of work, special setting tools, punches and dies.

Still more equipment economy is provided by United's program of machine part standardization, since setting tools, set bars, horns, raceway units and other functional parts purchased for the Model "H" can be interchangeably used on the motor driven Model "G."

MODEL H
SYMBOL
EMH



All dimensions in inches; will vary somewhat depending on adjustments and fittings.

DIMENSIONS AND SPECIFICATIONS

SIZE	Bench space: 10" wide x 13" deep x 26" high Boxed (domestic shipment): 13" x 18" x 28"
WEIGHT	Net: 85 lbs. Boxed (domestic shipment): 116 lbs.
SPEED	Foot power
EYELET SIZE RANGE	Raceway feed: .059" barrel diameter to 5/8" head diameter Manual feed: smallest practicable to the largest grommets

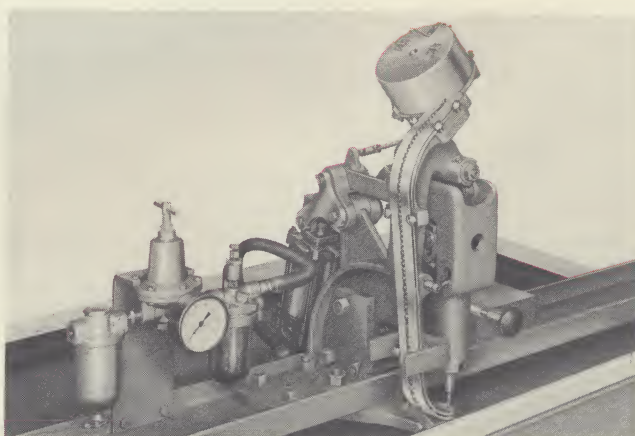
STANDARD EQUIPMENT†

Complete with raceway and standard setting tools for any one size eyelet, treadle rod and treadle.

OPTIONAL EQUIPMENT

Gauges for work alignment; piercing, punching and other special or additional standard setting tools; retractable spindle; set die yielding mechanism; special horns; punches and dies; additional standard or special raceways and additional standard or special setting tools.

†If machine is fitted for United Standardized Eyelet, it will set all other United SE sizes of same barrel diameter; see pages 4 and 5.

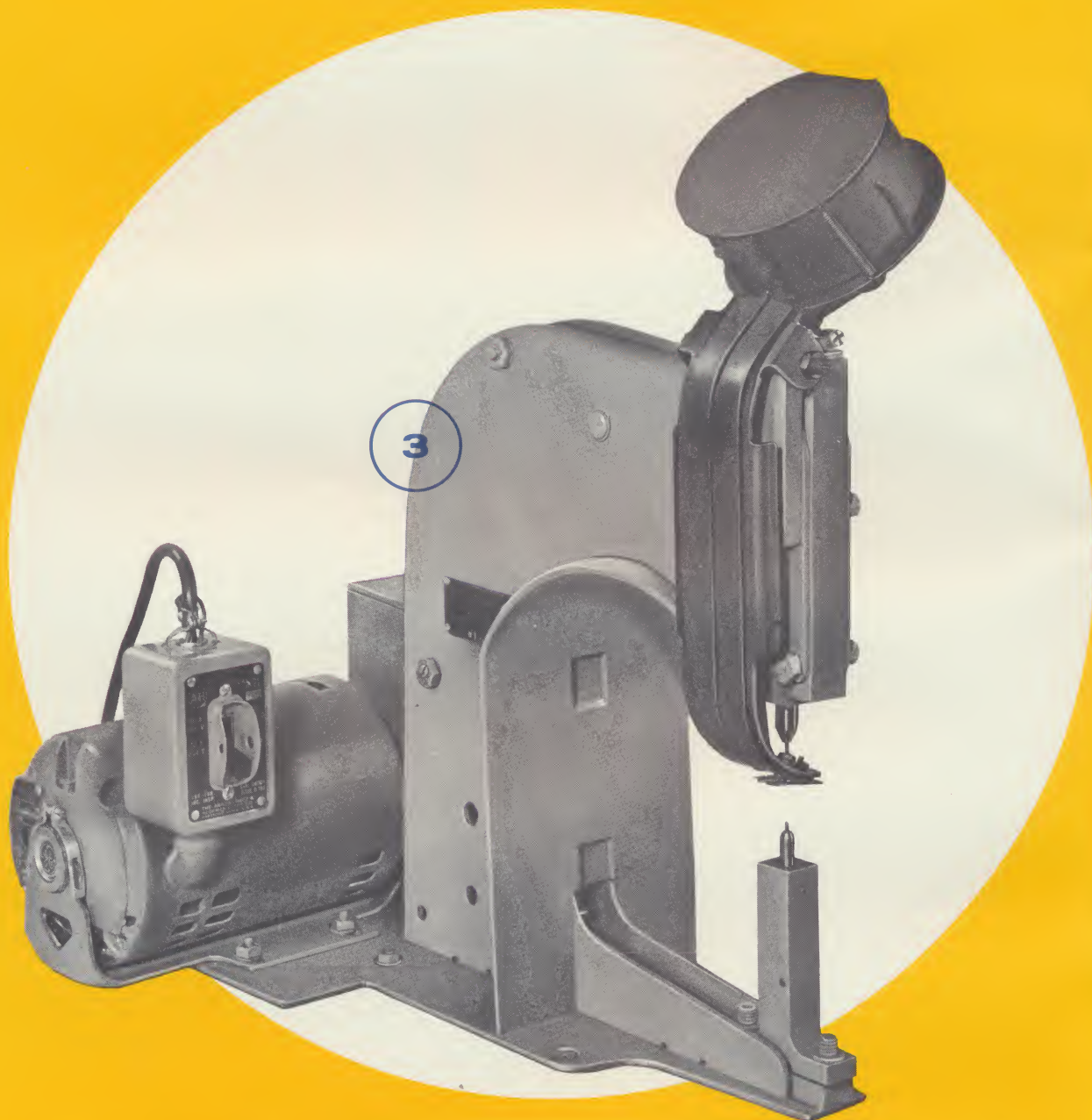
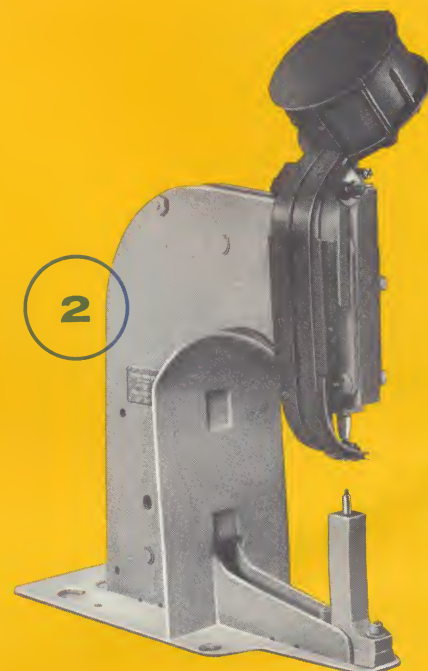
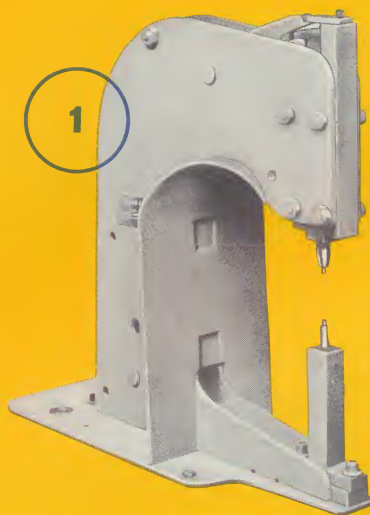


Air-powered Model "H" with special fittings for refrigerator door gasket assembly.

United

EYELETING MACHINE

Model A



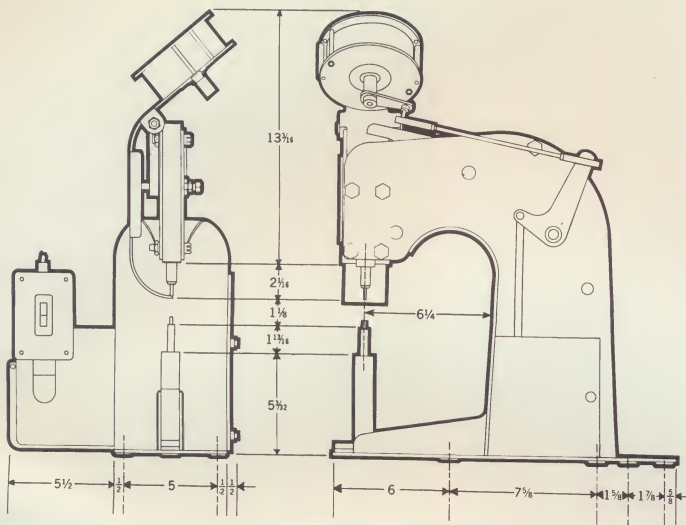
DIMENSIONS AND SPECIFICATIONS

FOOT POWER

SIZE	Bench Space: 6" wide x 17 $\frac{3}{4}$ " deep x 23 $\frac{1}{2}$ " high Boxed (domestic shipment) 9 $\frac{1}{2}$ " x 23" x 24 $\frac{1}{2}$ "
WEIGHT	Net 45 lbs. Boxed (domestic shipment) 65 lbs.
SPEED	Foot power
EYELET SIZE RANGE	Raceway feed: .059 barrel diameter to $\frac{3}{8}$ " head diameter Manual feed: smallest practicable to Large Klondike brass eyelet

MOTOR POWER

SIZE	Bench Space: 12" wide x 20 $\frac{7}{8}$ " deep x 23 $\frac{1}{2}$ " high Boxed (domestic shipment) 16 $\frac{1}{2}$ " x 25 $\frac{1}{2}$ " x 27"
WEIGHT	Net 85 lbs. Boxed (domestic shipment) 105 lbs.
SPEED	Cycle time is approximately .36 seconds
POWER	$\frac{1}{8}$ HP, 1140 RPM motor
EYELET SIZE RANGE	Raceway feed: .059 barrel diameter to $\frac{3}{8}$ " head diameter Manual feed: smallest practicable to Large Klondike brass eyelet



All dimensions in inches; will vary somewhat depending on adjustments and fittings.

The new United Eyeletting Machine, Model "A", was designed primarily to meet limited eyeletting requirements efficiently and economically.

Effecting substantial savings in the initial cost and in its manufacturing uses, the Model "A" provides additional economies by increasing its capacity at little cost in these easy steps:

1. The basic machine—intended for the manufacturer with only very small requirements — is equipped for manual feed of the eyelet to the setting tool.
2. Then, as eyeletting increases, the capacity of the Model "A" can be enlarged by adding a raceway to obtain automatic feed of the eyelet.
3. The next step is converting of the Model "A" to a motor driven machine with the motor and motor driven parts adaptable to simple conversion.

The raceway-equipped Model "A" eyeletting rate is restricted only by the ability of the operator to fit together component parts on the set die and to depress the treadle. Machine cycle time of the motor driven unit is only .36 seconds.

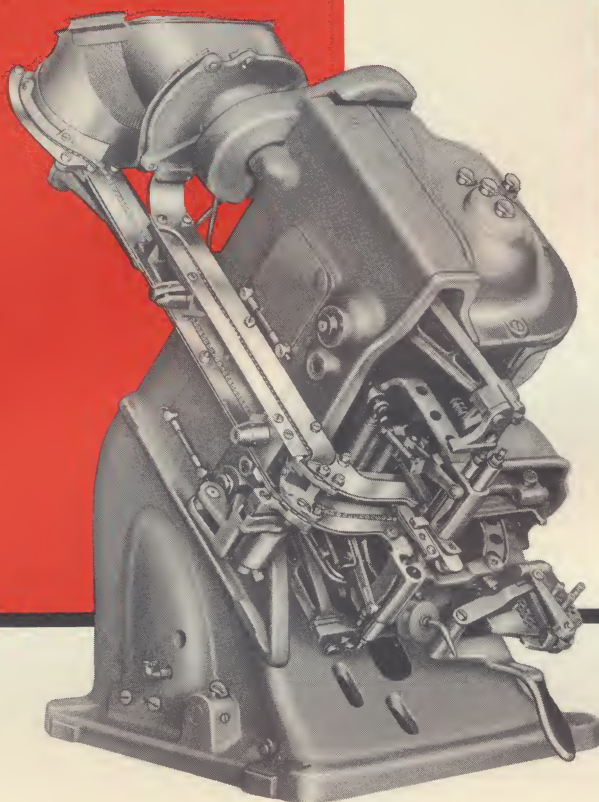
Oscillating motion of the eyelet box brush ensures a steady flow of eyelets of even the longer lengths into the rails. Eyelets of all diameters and lengths of the SE Eyelet line and larger eyelets up to and including the Large Klondike can be handled on Model "A" machines.

Setting tools for this machine are the same high quality as those used in other United Eyeletting machines.



United

DUPLEX EYELETING MACHINE



DIMENSIONS AND SPECIFICATIONS

SIZE	Bench space: 17" wide x 23" deep x 27" high
	Boxed (domestic shipment): 30" x 22" x 31"
WEIGHT	Net: 250 lbs.
	Boxed (domestic shipment): 348 lbs.
SPEED	400 r.p.m. to 235 r.p.m., depending on spacing
POWER	Usually driven from factory-powered countershaft; requires approximately 1/2 horsepower; motor available as extra equipment in types for your electrical service.

SYMBOL

DEB

Model B

Actually two eyeleting mechanisms combined in one machine, the United Duplex Eyeleter, is used where pairs of eyelets are needed exactly opposite one another as in corsets or other laced garments. The machine punches two holes, feeds and sets two eyelets simultaneously and feeds the work to the desired eyelet spacing — all automatically. The machine repeats its automatic cycle continuously. So accurate is the machine that each eyelet in every pair is exactly opposite its mate in the opposing row.

Operating at rates up to 800 eyelets per minute, this high production machine is equipped with a punching mechanism independent of eyelet setting tools to make exactly the right size hole for the eyelet. Materials frequently eyeleted on this machine include leather, rubber, plastics, both natural and synthetic fabrics and canvas. Eyelet size range is from No. 4 Long Invincible (.151" barrel diameter) to .505-.303 Telescopic (.560" flange diameter). Spacing is easily adjusted by the operator from $\frac{3}{8}$ " to $1\frac{3}{8}$ ". Location of eyelets from the edge of the work can also be readily changed by a simple adjustment of the edge gauge.

For use on shower curtains or other work in which the

additional security of an eyelet-washer combination is desired, the machine can be equipped to feed one telescopic eyelet and one telescopic washer automatically. When so fitted, only one eyelet-washer combination is fed and set at a time, but the work is fed along to the desired spacing exactly as in the standard machine.

Easily interchangeable raceways have corrosion resistant stainless steel rails. Setting tools and punches are also readily changed.

The highly developed design and rugged construction of this machine ensure long years of reliable service.

This machine is available on either sale or lease basis.

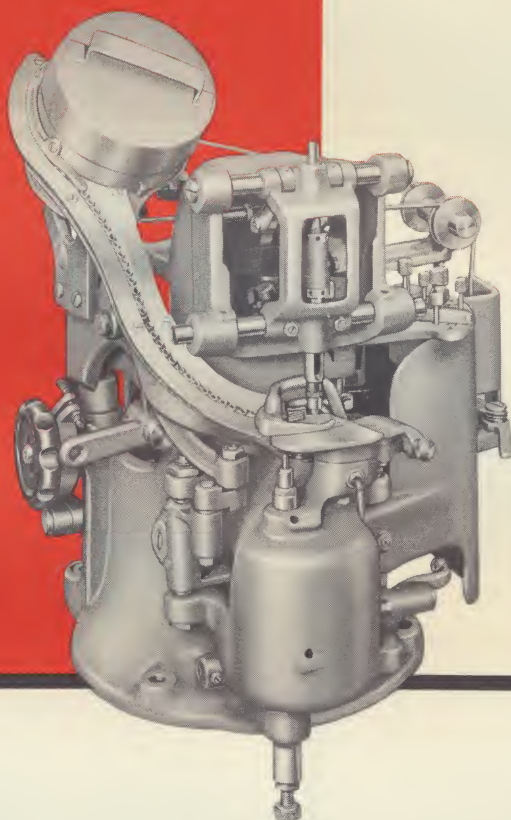
STANDARD EQUIPMENT

Complete with one double raceway and pair of setting tools for any one size eyelet, punches, adjustable edge gauge, $\frac{3}{8}$ " round belt.

OPTIONAL EQUIPMENT

Telescopic eyelet and washer fittings including raceways and setting tools, edge spacing device, special setting tools and punches.

United EYELETING MACHINE



DIMENSIONS AND SPECIFICATIONS

SIZE	Bench space: 18" wide x 16¼" deep x 20½" high Boxed (domestic shipment): 24" x 24" x 24"
WEIGHT	Net: 155 lbs. Boxed (domestic shipment): 204 lbs.
SPEED	500 r.p.m. (standard spacing range) 350 r.p.m. (equipped for wide spacing range)
POWER	Usually driven from factory-powered countershaft; requires approximately ½ horsepower; motor available as extra equipment in types for your electrical service.

SYMBOL
UEC

Model C

Operating at production rates as high as 500 eyelets per minute, this machine not only feeds and sets eyelets but also punches holes for the eyelets, feeds the work, and spaces the eyelets — all automatically. Minimum operator skill is required, since the machine repeats its automatic cycle continuously.

Because of its highly accurate spacing, the United Model "C" Eyeleter is especially suitable for apparel applications such as belts, corsets, reinforcement of garment ventilating holes, and adjustable straps for brassieres and other garments. It will handle a wide range of materials including leather, rubber, canvas, plastics, and both natural and synthetic fabrics. The machine automatically feeds and sets both round barrel and odd shaped fancy eyelets from 5 Invincible (.092" barrel diameter) to Large Klondike (.602" flange diameter). Easily adjusted eyelet spacing can be varied from ¾" to 1" with standard fittings and from ⅞" to 1½" when machine is equipped for wide spacing.

Especially adapted for "blind" or "invisible" eyeleting, the machine will set these eyelets between two or more layers of material so that the eyelet can be seen only on one side of work.

As in all United eyeleting machines, raceways and setting tools are easily interchangeable for various sizes of eyelets. Both the deep-drawn, seamless eyelet box and raceway rails are formed from corrosion-resistant stainless steel.

Even unskilled operators quickly become experts with this high production machine. Special fittings can be provided for many types of work and material.

This machine is available on either sale or lease basis.

STANDARD EQUIPMENT

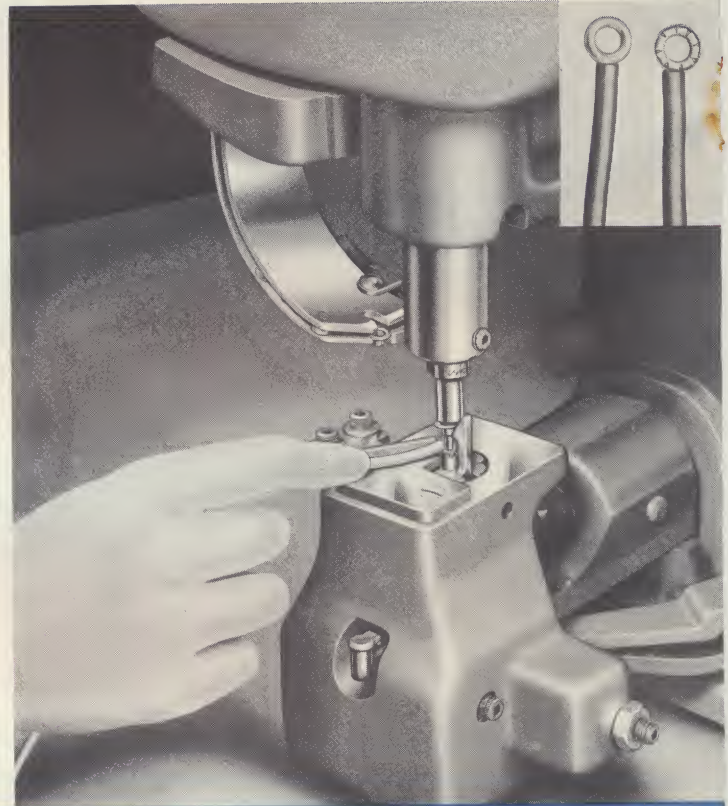
Complete with single raceway and punching-type setting tools for any one size eyelet, ⅜" round belt, adjustable edge gauge, presser foot for holding work, integral worktable.

OPTIONAL EQUIPMENT

Additional special setting tools; additional standard and special raceways; special work holding presser feet; special worktable and edge gauge for belts and straps.

GET MORE from **United** Eyeleting Machines

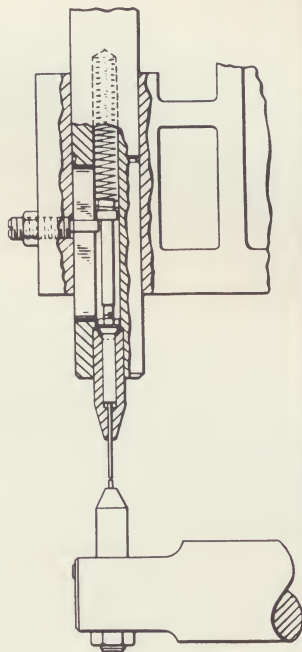
Increase the efficiency of your United Eyeleter even further with these auxiliary devices and special fittings. Especially designed to solve production problems related to eyeleting, they save many times their cost in time, money, and increased production. Machines for which each is available are indicated. While factory installation is recommended in all cases, some of these devices can be installed in the field on United machines now in your plant. Call or write the nearest United office for complete details.



RETRACTABLE SPINDLE FITTINGS

(For Models "G" and "H")

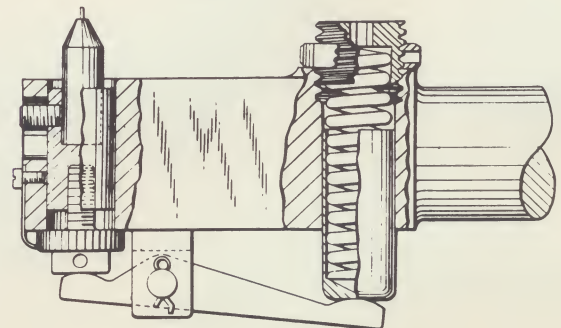
Production losses caused by breakage of setting tools required for small diameter eyelets (.070" and smaller) are practically eliminated with United Retractable Spindle Fittings. This ingenious device stops the downward motion of the set spindle just before it touches the pilot of the set die. It is easily adjustable for proper clearance.



SET DIE YIELDING MECHANISM

(For Models "G" and "H")

A must when eyeleting fragile work, the Set Die Yielding Mechanism reduces cripples by automatically compensating for variations in material thickness. Even brittle parts of ceramic or plastic can be readily eyeleted when your United Eyeleter is equipped with this device which permits thickness tolerances of as much as 1/10" in some materials.



With These Time and Money Saving Devices

TERMINAL WIRING DEVICE

(For Model "G")

Users report that the United Model "G" Eyeleter equipped with a Terminal Wiring Device is the most economical way to fasten Terminals to wire leads. Production rates as high as 2,000 leads per hour have been attained. The device wraps the wire around the set die and automatically feeds and sets the eyelet in the loop to produce strong, uniform terminals.

Sizes of scored eyelets listed below are those usually used for this work — with screw, wire sizes, and settings indicated. However, there are many other United eyelets — as well as other settings — which are better for some types of work.

To find the best eyelet for your application, send wire samples to the nearest United office.

TERMINAL EYELET SPECIFICATIONS

Wire Size	Screw Size	Recommended Eyelet**	Suggested Wire Strip
14	10 (.195")*	AA Colonial Brass	5/16"
16	8 (.185")*	1 Colonial Brass	1/2"
18	6 (.155")*	2 Colonial Brass	7/16"
20	4 (.135")*	3 Colonial Brass	3/8"

*Inside diameter of set eyelet. **Specify Unlacquered.

Note: Some stranded wire may need twisting or straightening after stripping; maximum wrap around eyelet barrel is 270°.

MANUAL MECHANICAL TRIP

(For Model "F")

For greater safety the Manual-Mechanical Trip keeps operator's hand away from setting tools when machine is tripped. Works with light hand pressure.

ELECTRIC TRIP MECHANISM

(For Models "F" and "G")

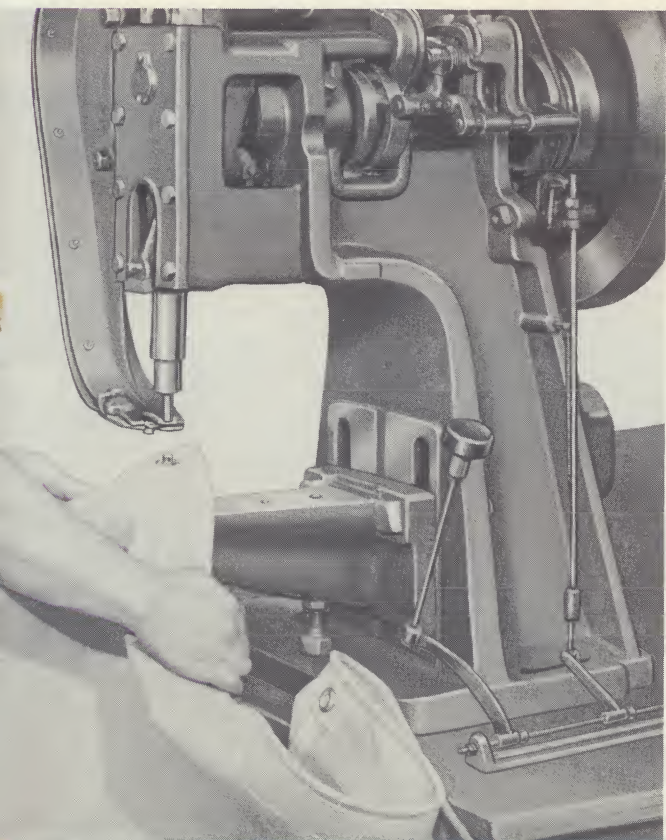
Greater comfort and convenience for operator means increased volume. Electric Trip reduces operator fatigue. Can be located anywhere for added convenience. Bench mounting promotes safety by keeping operator's hand away from setting tool when machine is tripped.

RACEWAY THROW-OUT AND TWO-REVOLUTION CLUTCH

(For Model "F")

The versatile United Model "F" Eyeleter becomes a dual purpose punching and eyeleting machine when equipped with Raceway Throw-Out and Two-Revolution Clutch. With only one treadling the machine punches the hole and feeds and sets the eyelet or grommet — all automatically. The hole is punched in the first cycle with the raceway held out and then the machine automatically feeds and sets the eyelet during the second cycle.

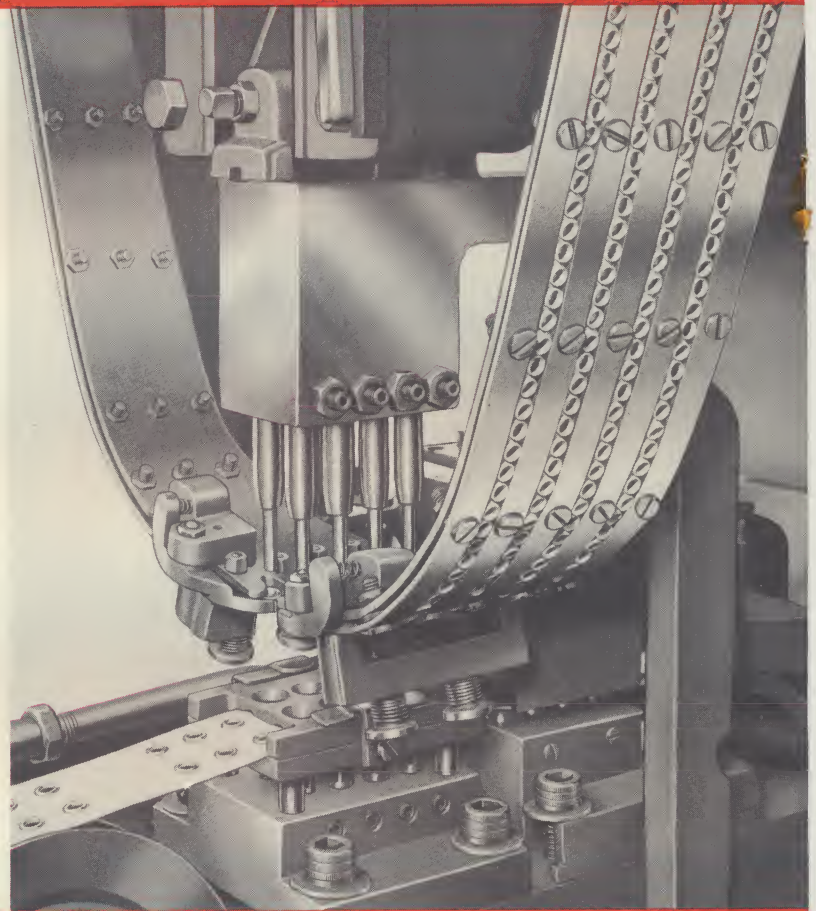
The machine makes a clean hole in even the heaviest duck or canvas and will feed and set grommets up to No. 5 (.675" barrel diameter) and in some cases even larger.



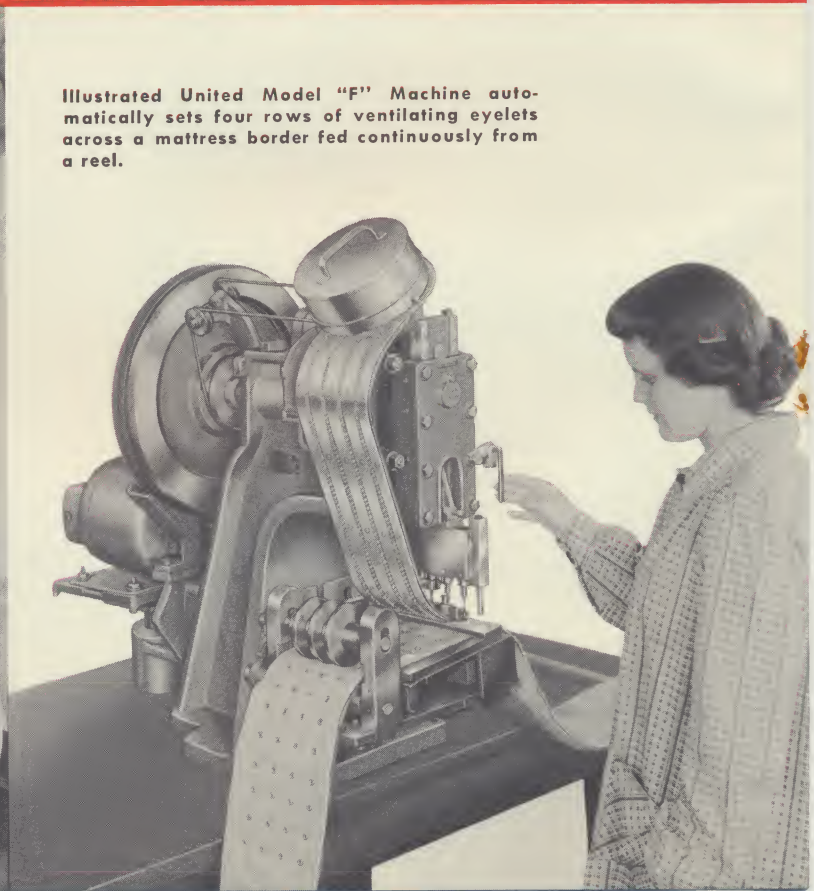
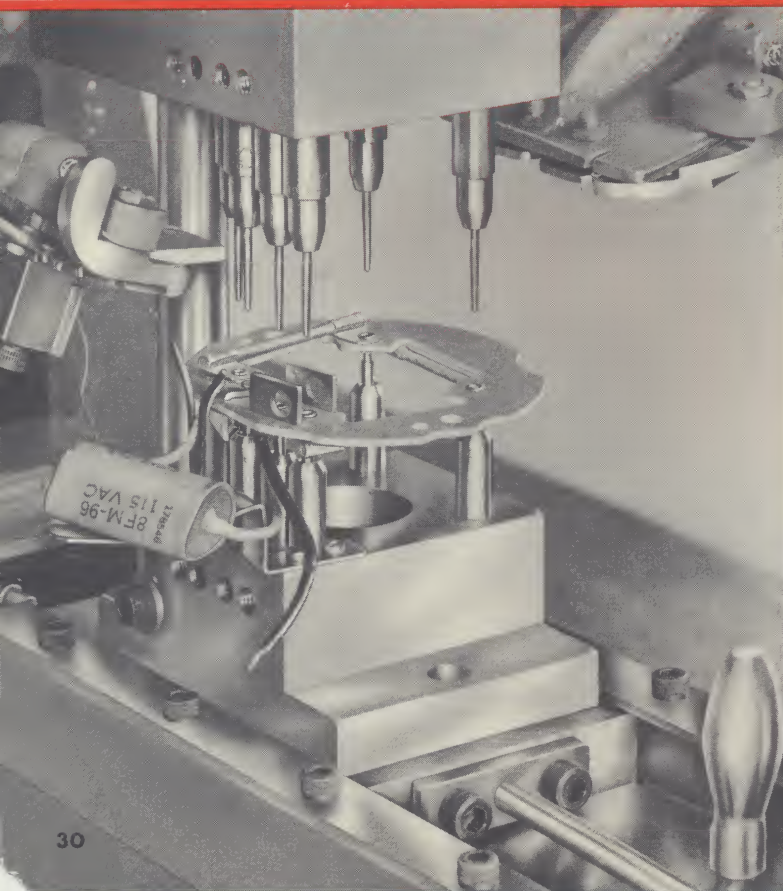
EVEN GREATER SAVINGS with

When design or production problems are such that maximum eyelet economy can be realized only with special equipment, United's more than 60 years know-how is the answer. A typical United solution of a production problem is illustrated (right.) Here, a Model "F" Eyeleter with special fittings punches eight holes in brassiere tape, feeds and sets eight eyelets simultaneously, and feeds the tape continuously from a reel — all automatically — hour after hour.

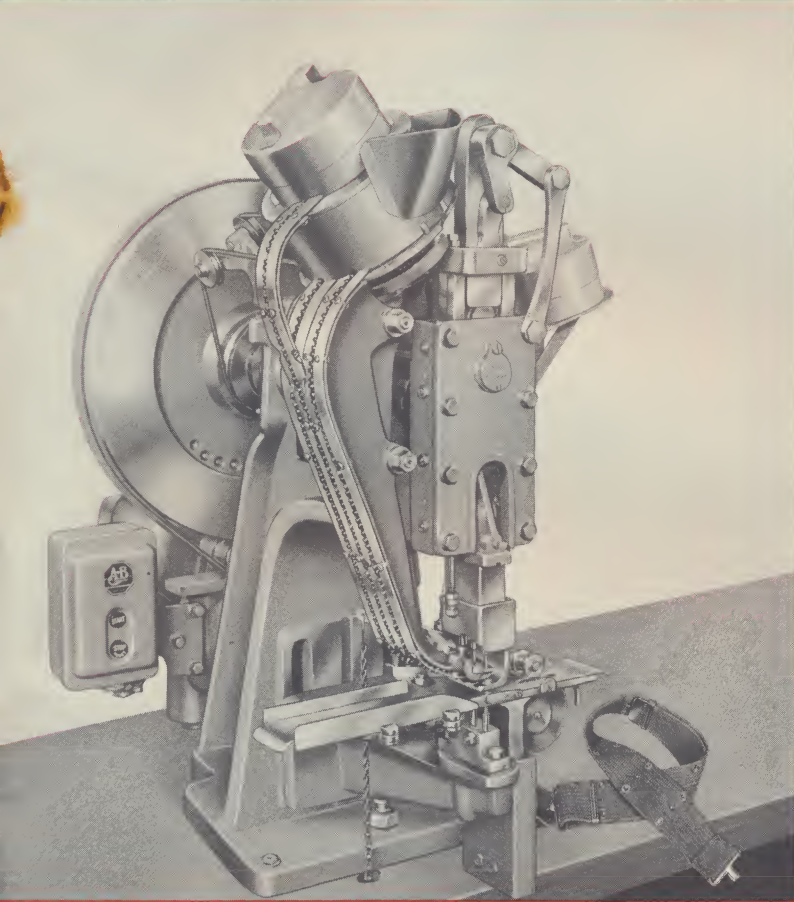
Among the many other special eyeleting production mechanisms developed by United: Model "H" Eyeleter fitted with pneumatic piston and microswitch and mounted on a raised beam for eyeleting a plastic gasket on a refrigerator door (page 23); Model "G" Eyeleter fitted with sliding set die holder and automatic trip for fastening a switch box cover (page 21); Model "F" Eyeleter fitted to feed and set six eyelets at each stroke and equipped with sliding die block for easy loading and microswitch machine trip (below).



Illustrated United Model "F" Machine automatically sets four rows of ventilating eyelets across a mattress border fed continuously from a reel.



Special United Eyeleting Equipment



Another of the many outstanding special eyeleting developments pioneered by United is this Model "F" Eyeleter (left) fitted for automatic piercing, eyeleting, and feeding heavy military pistol belts.

The machine pierces three holes in the heavy webbing, feeds three eyelets of two different sizes together with washers required for the two outside eyelets, sets all three eyelets, feeds the belt spacing the eyelets — all automatically. This automatic cycle of piercing, eyelet and washer feeding, eyelet setting, and belt feeding is repeated continuously until the last row of eyelets in each belt is set.

For the answer to that challenging eyelet design or production problem outside the scope of the versatile United standard eyeleting machines and accessories, ask the nearest United office about Special Eyelet Equipment.

GUARDS TO IMPROVE SAFETY

While experience has indicated that it is impracticable to supply stock guards to meet all conditions, United has developed many different types of guards which are furnished as extra equipment.



CHOICE OF RIGHT SETTING TOOLS CRITICAL FOR GOOD EYELETING

Complete co-ordination of all elements is absolutely essential for economical high quality eyeleting. All factors should be carefully examined including: type and thickness of material in which eyelet is to be set; function of the eyelet; dimensions, shape, type, material, and finish of the eyelet; production method, eyeleting machine and fittings to be used; and setting tools. Each of these elements must be considered both in relation to one another and in relation to the finished product. This is especially true of setting tools.

To get the right combination of setting tools, eyelets, and eyelet setting equipment, send a sample of the work to be eyeleted to United's Fastener Division, Shelton, Conn., or to your local Branch Office. Eyelet settings will be made for you and returned with recommendations for the most efficient combination of eyelets and equipment.

INDEX

TO EYELET CONSOLIDATED LIST

Eyelets are Listed
Alphabetically and Numerically

	SEE PAGE
AA Colonial Alum	54
AA Colonial Brass	53
AA Colonial Steel	53
AA Colonial Extra Long Alum	54
AA Colonial Extra Long Brass	53
AA Colonial Extra Long Steel	53
AA Colonial Extra Short Brass	53
AA Colonial Flat Alum	54
AA Colonial Flat Brass	53
AA Colonial Long Alum	54
AA Colonial Long Brass	53
AA Colonial Long Steel	53
AA Federal Alum	54
AA Federal Brass	53
AA Federal Steel	53
AA Federal Extra Long Alum	54
AA Federal Extra Long Brass	53
AA Federal Extra Long Steel	53
AA Federal Extra Short Brass	53
AA Federal Flat Alum	54
AA Federal Flat Brass	53
AA Federal Long Alum	54
AA Federal Long Brass	53
AA Federal Long Steel	53
AA Invincible Alum	54
AA Invincible Brass	54
AA Invincible Extra Long Brass	55
AA Invincible Flat Brass	55
AA Invincible Long Alum	54
AA Invincible Long Brass	55
AA Invincible Short Alum	54
AA Invincible Short Brass	54
AA Invincible Short Flat Brass	55
AA Rolet Alum	54
AA Rolet Brass	54
AA Rolet Extra Long Brass	55
AA Rolet Flat Brass	55
AA Rolet Long Alum	54
AA Rolet Long Brass	55
AA Rolet Short Alum	54
AA Rolet Short Brass	54

AA Rolet Short Flat Brass	55
AA Telescopic Washer Alum	56
AA Telescopic Washer Brass	56
B Long Brass	46
Belt Alum	50
Belt Steel	50
CS Alum	50
Large Klondike Alum	59
Large Klondike Brass	59
Long Junior Alum	57
Long Junior Brass	57
Long Klondike Brass	59
O Glove Brass	42
O Grommet Brass	57
O Grommet Steel	57
OO Invincible Alum	57
OO Invincible Brass	57
OO Invincible Long Alum	57
OO Invincible Long Brass	57
OO Rolet Alum	57
OO Rolet Brass	57
OO Rolet Long Alum	57
OO Rolet Long Brass	57
Ski Boot Long Brass	54
Towel Grommet Brass (Indented)	59
Towel Grommet Brass (Not Indented)	59
Towel Grommet Steel (Not Indented)	59
$\frac{3}{8}$ Calendar Brass	56
$\frac{3}{8}$ Calendar Steel	56
$\frac{3}{8}$ Calendar Zinc	56
$\frac{3}{8}$ Calendar Short Brass	56
$\frac{3}{8}$ Calendar Short Zinc	56
$\frac{3}{8}$ Curtain Zinc	52
$\frac{1}{2}$ Brass	44
$\frac{1}{2}$ Calendar Brass	58
$\frac{1}{2}$ Calendar Zinc	58
$\frac{1}{2}$ Calendar Short Brass	58
$\frac{1}{2}$ Calendar Short Zinc	58
$\frac{1}{2}$ Curtain Brass	51
1 Calendar Alum	58
1 Calendar Brass	58
1 Calendar Steel	58
1 Calendar Extra Long Brass	58
1 Colonial Alum	51
1 Colonial Brass	51
1 Colonial Steel	51
1 Colonial Flat Brass	51
1 Colonial Long Alum	51
1 Colonial Long Brass	51
1 Colonial Long Steel	51
1 Federal Alum	51
1 Federal Brass	51
1 Federal Steel	51
1 Federal Long Alum	51
1 Federal Long Brass	51

1 Federal Long Steel	51
1 Grommet Brass	58
1 Grommet Steel	58
1 Invincible Alum	50
1 Invincible Brass	51
1 Invincible Long Alum	50
1 Invincible Long Brass	51
1 Invincible Short Alum	50
1 Jumbo Blind Alum	52
1 Jumbo Blind Brass	52
1 Jumbo Blind Steel	52
1 Klondike Alum	58
1 Klondike Brass	58
1 Rolet Alum	51
1 Rolet Long Alum	51
1 Rolet Short Alum	51
1 Telescopic Washer Alum	55
1 Telescopic Washer Brass	54
1 Telescopic Washer Long Alum	55
1 Telescopic Washer Long Brass	54
2 Calendar Alum	57
2 Calendar Brass	57
2 Calendar Steel	57
2 Colonial Alum	48
2 Colonial Brass	48
2 Colonial Steel	48
2 Colonial Extra Long Brass	48
2 Colonial Flat Brass	48
2 Colonial Long Alum	48
2 Colonial Long Brass	48
2 Colonial Long Steel	48
2 Federal Alum	48
2 Federal Brass	48
2 Federal Steel	48
2 Federal Long Alum	48
2 Federal Long Brass	48
2 Federal Long Steel	48
2 Grommet Brass	59
2 Grommet Steel	59
2 Invincible Alum	48
2 Invincible Brass	48
2 Invincible Extra Long Alum	49
2 Invincible Flat Brass	48
2 Invincible Long Alum	48
2 Invincible Long Brass	48
2 Invincible Long Flat Brass	48
2 Invincible Short Alum	48
2 Rolet Alum	48
2 Rolet Long Alum	48
2 Rolet Short Alum	48
3 Colonial Alum	46
3 Colonial Brass	46
3 Colonial Steel	46
3 Colonial Long Alum	46
3 Colonial Long Brass	46
3 Colonial Long Steel	46
3 Federal Alum	47
3 Federal Brass	46
3 Federal Steel	47
3 Federal Long Alum	47
3 Federal Long Brass	46

3 Federal Long Steel	47
3 Grommet Brass	59
3 Invincible Alum	46
3 Invincible Brass	46
3 Invincible Flat Alum	46
3 Invincible Long Alum	46
3 Invincible Long Brass	46
3 Invincible Short Alum	46
3 Rolet Alum	46
3 Rolet Long Alum	46
4 Grommet Brass	59
4 Invincible Alum	47
4 Invincible Brass	45
4 Invincible Extra Long Brass	45
4 Invincible Long Alum	47
4 Invincible Long Brass	45
5 Invincible Alum	44
5 Invincible Brass	44
8 Gasket Bronze	57
9 Gasket Bronze	58
10 Gasket Bronze	58
10 Terminal Brass	55
10 Terminal Extra Long Brass	55
10 Terminal Long Brass	55
11 Laundry Brass	50
11 Laundry Steel	50
11 Special Brass	50
11 Special Steel	50
12 Brass	50
95 Tag Zinc	50
043 Blind Alum	44
043 Blind Brass	44
043 Blind Steel	44
115 Blind Alum	46
115 Blind Brass	44
115 Blind Steel	44
125 Alum	47
125 Brass	47
135 Alum	47
135 Brass	47
143 Blind Alum	44
143 Blind Brass	44
143 Blind Steel	44
145 Alum	47
145 Brass	47
200 Brass	44
202 Alum	56
202 Brass	56
202 Long Brass	56
205 Alum	51
205 Brass	52
205 Zinc	52

300 Button Alum	47
303 Alum	58
303 Brass	58
334 Brass	40
334 Short Brass	40
396 Brass	59
404 Alum	54
404 Brass	54
404 Special Long Brass	54
505 Alum	58
505 Brass	58
505 Short Brass	58
600 Steel	45
601 Brass	50
602 Alum	44
602 Steel	44
603 Brass	51
604 Steel	50
605 Brass	52
606 Alum	44
607 Brass	52
609 Brass	52
621 Brass	52
625 Alum	47
626 Brass	52
627 Brass	49
628 Brass	52
629 Brass	51
630 Alum	58
631 Brass	49
632 Brass	51
633 Brass	54
634 Alum	55
635 Brass	47
635 Steel	47
636 Brass	45
637 Brass	43
639 Brass	51
640 Brass	55
641 Alum	57
642 Alum	57
642 Steel	57
643 Brass	52
644 Brass	52
645 Brass	43
646 Brass	44
647 Brass	43
648 Alum	47
649 Brass	57
650 Alum	48
651 Alum	56
652 Steel	50
653 Alum	57
654 Brass	57
655 Brass	53

657 Brass	52
659 Alum	44
660 Steel	50
661 Alum	48
742 Alum	50
742 Brass	50
742 Long Alum	50
742 Steel	50
853 Alum	50
2530 Brass	59
3350 Brass	42
4094 Brass	51
4132 Brass	47
4133 Brass	47
4211 Brass	51
4213 Brass	52
5116 Brass	42
6198 Brass	42
S-5001 Brass	42
S-5003 Brass	42
S-5006 Brass	42
S-5007 Brass	42
S-5008 Brass	43
S-5013 Brass	59
S-5014 Steel	59
S-5556 Brass	51
S-5560 Brass	58
S-5570 Brass	44
S-5575 Brass	59
S-5576 Brass	59
S-5578 Brass	42
S-5601 Alum	40
S-5602 Brass	59
S-5609 Brass	40
S-5615 Steel	55
S-5617 Gilding	54
S-5625 Brass	39
S-5630 Brass	41
S-5632 Brass	41
S-5635 Zinc	47
S-5636 Brass	41
S-5639 Brass	55
S-5646 Brass	41
S-5666 Brass	55
S-5674 Brass	50
S-5675 Brass	41
S-5677 Brass	41
S-5681 Alum	49
S-5684 Brass	47
S-5685 Brass	46
S-5690 Brass	44
S-5692 Brass	59
S-5696 Brass	57

S-5703 Brass	55
S-5704 Brass	46
S-5706 Brass	59
S-5709 Cupro Nickel	41
S-5710 Cupro Nickel	41
S-5716 Brass	42
S-5719 Brass	40
S-5721 Brass	40
S-5725 Stainless Steel	50
S-5732 Brass	40
S-5746 Brass	39
S-5751 Cupro Nickel	41
S-5755 Stainless Steel	49
S-5767 Brass	39
S-5774 Brass	40
S-5780 Cupro Nickel	41
S-5784 Brass	47
S-5786 Zinc	57
S-5788 Brass	39
S-5790 Brass	44
S-5794 Brass	42
S-5797 Brass	47
S-5802 Copper	43
S-5805 Brass	52
S-5806 Brass	54
S-5807 Brass	47
S-5808 Brass	42
S-5812 Brass	38
S-5813 Brass	38
S-5815 Brass	41
S-5818 Bronze	55
S-5824 Brass	39
S-5828 Brass	44
S-5836 Brass	42
S-5839 Brass	39
S-5840 Brass	42
S-5841 Brass	45
S-5842 Brass	45
S-5845 Brass	50
S-5847 Zinc	55
S-5848 Brass	40
S-5849 Brass	41
S-5850 Brass	57
S-5853 Brass	39
S-5854 Brass	46
S-5855 Brass	55
S-5856 Brass	45
S-5865 Brass	46
S-5867 Brass	37
S-5867 Copper	37
S-5868 Brass	46
S-5869 Brass	42

S-5871 Brass	46
S-5872 Brass	37
S-5872 Copper	37
S-5873 Brass	47
S-5874 Copper	42
S-5875 Brass	40
S-5876 Copper	42
S-5877 Copper	40
S-5878 Copper	40
S-5879 Brass	47
S-5880 Brass	49
S-5881 Brass	42
S-5882 Alum	58
S-5884 Brass	39
S-5885 Brass	53
S-5886 Brass	57
S-5887 Brass	39
S-5888 Brass	46

S-5892 Brass	43
S-5894 Brass	39
S-5895 Zinc	57
S-5896 Alum	42
S-5898 Copper	40

S-5906 Steel	59
S-5907 Brass	40
S-5908 Brass	59
S-5909 Brass	38

S-5910 Brass	38
S-5911 Brass	41
S-5913 Brass	38
S-5914 Brass	39
S-5915 Brass	38
S-5918 Brass	45
S-5919 Brass	38

S-5920 Brass	38
S-5922 Steel	41
S-5924 Alum	58
S-5925 Alum	56
S-5926 Brass	37
S-5928 Brass	43
S-5929 Brass	41

S-5931 Brass	41
S-5931 Copper	41
S-5932 Brass	44
S-5934 Brass	41
S-5934 Copper	41
S-5935 Brass	43
S-5935 Copper	43
S-5936 Brass	38
S-5937 Brass	36
S-5938 Brass	38
S-5938 Copper	38

S-5942 Brass	43
S-5943 Alum	59
S-5946 Brass	42
S-5947 Brass	37
S-5948 Brass	45
S-5949 Brass	39

S-5950 Brass	41
S-5951 Brass	41
S-5953 Brass	40
S-5954 Brass	37
S-5955 Stainless Steel	46
S-5956 Brass	37
S-5958 Brass	39

S-5962 Copper	36
S-5963 Brass	36
S-5964 Brass	36
S-5964 Copper	36
S-5965 Brass	36
S-5965 Copper	36
S-5966 Brass	39
S-5967 Brass	38
S-5968 Brass	38
S-5969 Brass	39

S-5973 Brass	40
S-5974 Brass	39
S-5978 Brass	41

S-5980 Brass	42
S-5982 Brass	54
S-5984 Copper	36
S-5987 Brass	39
S-5988 Brass	39
S-5989 Brass	39

S-5990 Brass	39
S-5991 Brass	39
S-5992 Brass	39
S-5993 Brass	39
S-5994 Brass	39
S-5995 Brass	39
S-5996 Brass	40
S-5997 Brass	40
S-5998 Brass	40
S-5999 Brass	42

S-6023 Brass	36
S-6023 Copper	36
S-6025 Brass	36
S-6025 Copper	36
S-6027 Brass	36
S-6027 Copper	36

S-6043 Brass	37
S-6043 Copper	37
S-6045 Brass	37
S-6045 Copper	37
S-6047 Brass	38
S-6047 Copper	38
S-6049 Brass	38
S-6049 Copper	38

S-6062 Brass	36
S-6062 Copper	36
S-6064 Brass	36
S-6064 Copper	36
S-6066 Brass	36
S-6066 Copper	36

S-6082 Brass	37
S-6082 Copper	37
S-6084 Brass	37
S-6084 Copper	37
S-6086 Brass	38
S-6086 Copper	38
S-6088 Brass	38
S-6088 Copper	38

S-6121 Brass	36
S-6121 Copper	36
S-6123 Brass	36
S-6123 Copper	36
S-6125 Brass	36
S-6125 Copper	36
S-6127 Brass	36
S-6127 Copper	36

S-6143 Brass	37
S-6143 Copper	37
S-6145 Brass	37
S-6145 Copper	37
S-6147 Brass	38
S-6147 Copper	38

S-6200 Brass	43
S-6201 Brass	43
S-6202 Brass	39
S-6203 Brass	39
S-6204 Brass	37
S-6205 Brass	43
S-6240 Brass	41

SE-22 Brass	37
SE-22 Brass Flat Flange	38
SE-23 Brass	37
SE-23 Brass Flat Flange	38
SE-24 Brass	37
SE-24 Brass Flat Flange	38
SE-25 Brass	37
SE-25 Brass Flat Flange	38
SE-26 Brass	37
SE-26 Brass Flat Flange	38
SE-27 Brass	37
SE-27 Brass Flat Flange	39

SE-33 Brass	40
SE-33 Brass Flat Flange	41
SE-34 Brass	40
SE-34 Brass Flat Flange	41
SE-35 Brass	40
SE-35 Brass Flat Flange	41
SE-36 Brass	40
SE-36 Brass Flat Flange	41
SE-37 Brass	40
SE-37 Brass Flat Flange	42
SE-38 Brass	40
SE-38 Brass Flat Flange	42
SE-39 Brass	40
SE-39 Brass Flat Flange	42
SE-310 Brass	41
SE-310 Brass Flat Flange	42

SE-43 Brass	43
SE-43 Brass Flat Flange	43

SE-44 Brass	43
SE-44 Brass Flat Flange	43
SE-45 Brass	43
SE-45 Brass Flat Flange	43
SE-46 Brass	43
SE-46 Brass Flat Flange	43
SE-47 Brass	43
SE-47 Brass Flat Flange	43
SE-48 Brass	43
SE-48 Brass Flat Flange	43
SE-49 Brass	43
SE-49 Brass Flat Flange	44
SE-410 Brass	43
SE-410 Brass Flat Flange	44
SE-411 Brass	43
SE-411 Brass Flat Flange	44

SE-53 Brass	45
SE-53 Brass Flat Flange	45
SE-54 Brass	45
SE-54 Brass Flat Flange	45
SE-55 Brass	45
SE-55 Brass Flat Flange	45
SE-56 Brass	45
SE-56 Brass Flat Flange	45
SE-57 Brass	45
SE-57 Brass Flat Flange	45
SE-58 Brass	45
SE-58 Brass Flat Flange	45
SE-59 Brass	45
SE-59 Brass Flat Flange	45
SE-510 Brass	45
SE-510 Brass Flat Flange	45
SE-511 Brass	45
SE-511 Brass Flat Flange	46

SE-63 Brass	49
SE-63 Brass Flat Flange	49
SE-64 Brass	49
SE-64 Brass Flat Flange	49
SE-65 Brass	49
SE-65 Brass Flat Flange	49
SE-66 Brass	49
SE-66 Brass Flat Flange	49
SE-67 Brass	49
SE-67 Brass Flat Flange	49
SE-68 Brass	49
SE-68 Brass Flat Flange	49
SE-69 Brass	49
SE-69 Brass Flat Flange	49
SE-610 Brass	49
SE-610 Brass Flat Flange	49
SE-611 Brass	49
SE-611 Brass Flat Flange	49
SE-612 Brass	49
SE-612 Brass Flat Flange	49
SE-613 Brass	49
SE-613 Brass Flat Flange	50
SE-614 Brass	49
SE-614 Brass Flat Flange	50

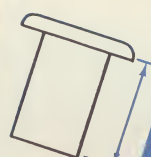
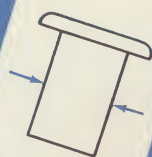
SE-73 Brass	52
SE-73 Brass Flat Flange	52

SE-74 Brass	52
SE-74 Brass Flat Flange	53
SE-75 Brass	52
SE-75 Brass Flat Flange	53
SE-76 Brass	52
SE-76 Brass Flat Flange	53
SE-77 Brass	52
SE-77 Brass Flat Flange	53
SE-78 Brass	52
SE-78 Brass Flat Flange	53
SE-79 Brass	52
SE-79 Brass Flat Flange	53
SE-710 Brass	52
SE-710 Brass Flat Flange	53
SE-711 Brass	52
SE-711 Brass Flat Flange	53
SE-712 Brass	52
SE-712 Brass Flat Flange	53

SE-83 Brass	55
SE-83 Brass Flat Flange	56
SE-84 Brass	55
SE-84 Brass Flat Flange	56
SE-85 Brass	55
SE-85 Brass Flat Flange	56
SE-86 Brass	55
SE-86 Brass Flat Flange	56
SE-87 Brass	55
SE-87 Brass Flat Flange	56
SE-88 Brass	55
SE-88 Brass Flat Flange	56
SE-89 Brass	56
SE-89 Brass Flat Flange	56
SE-810 Brass	56
SE-810 Brass Flat Flange	56
SE-811 Brass	56
SE-811 Brass Flat Flange	56
SE-812 Brass	56
SE-812 Brass Flat Flange	56
SE-813 Brass	56
SE-813 Brass Flat Flange	56

Large Twin Brass	60
Small Twin Brass	60
257 Long Twin	60
640 Twin Brass	60
S-5023 Brass (Twin Eyelet)	60
S-5586 Brass (Twin Eyelet)	60
S-5588 Brass (Twin Eyelet)	60
S-5589 Brass (Twin Eyelet)	60
S-5590 Brass (Twin Eyelet)	60
S-5594 Brass (Twin Eyelet)	60
S-5595 Brass (Twin Eyelet)	60
S-5623 Brass (Twin Eyelet)	60
S-5652 Brass (Twin Eyelet)	60
S-5705 Brass (Twin Eyelet)	60
S-5727 Brass (Twin Eyelet)	60
S-5728 Brass (Twin Eyelet)	60
S-5744 Brass (Twin Eyelet)	60
S-5793 Brass (Twin Eyelet)	60
S-5820 Brass (Twin Eyelet)	60
S-5827 Brass (Twin Eyelet)	60

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE† ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
S-5984 Copper	.039	.053	.060 FNL	.006	
S-5962 Copper	.045	.100	.076 F	.007	
S-6121 Brass*	.047	.048	.080 F	.007	9
S-6121 Copper*	.047	.048	.080 F	.007	9
S-6062 Brass*	.047	.053	.080 FNL	.007	9
S-6062 Copper*	.047	.053	.080 FNL	.007	9
S-6123 Brass*	.047	.062	.080 F	.007	9
S-6123 Copper*	.047	.062	.080 F	.007	9
S-6023 Brass*	.047	.062	.080 FNL	.007	9
S-6023 Copper*	.047	.062	.080 FNL	.007	9
S-6064 Brass*	.047	.085	.080 FNL	.007	9
S-6064 Copper*	.047	.085	.080 FNL	.007	9
S-6125 Brass*	.047	.093	.080 F	.007	9
S-6125 Copper*	.047	.093	.080 F	.007	9
S-6025 Brass*	.047	.093	.080 FNL	.007	9
S-6025 Copper*	.047	.093	.080 FNL	.007	9
S-5937 Brass	.047	.109	.080 F	.006	
S-6066 Brass*	.047	.118	.080 FNL	.007	9
S-6066 Copper*	.047	.118	.080 FNL	.007	9
S-6127 Brass*	.047	.125	.080 F	.007	9
S-6127 Copper*	.047	.125	.080 F	.007	9
S-6027 Brass*	.047	.125	.080 FNL	.007	9
S-6027 Copper*	.047	.125	.080 FNL	.007	9
S-5963 Brass	.050	.095	.068 F	.006	
S-5964 Brass	.050	.095	.078 F	.007	
S-5964 Copper	.050	.095	.078 F	.007	
S-5965 Brass	.050	.095	.083 F	.007	
S-5965 Copper	.050	.095	.083 F	.007	

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

† All eyelets Rolled Flange unless otherwise marked:

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁷ Square barrel.

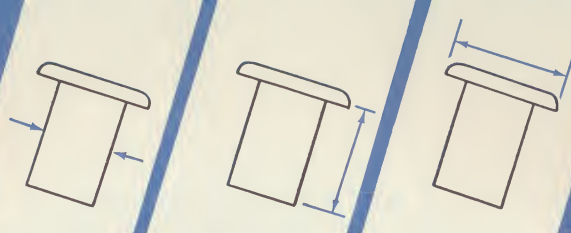
⁸ Bell Flange.

⁹ Closed End.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE† ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
S-6204 Brass*	.050	.140	.080	.007	9
S-5947 Brass	.052	.048	.180 FNL	.006	
S-5926 Brass	.052	.050	.180 FNL	.006	
S-5956 Brass	.052	.140	.093 F	.007	
S-6082 Brass*	.059	.053	.095 FNL	.007	9
S-6082 Copper*	.059	.053	.095 FNL	.007	9
S-6043 Brass*	.059	.062	.095 FNL	.007	9
S-6043 Copper*	.059	.062	.095 FNL	.007	9
S-6143 Brass*	.059	.062	.090 F	.007	9
S-6143 Copper*	.059	.062	.090 F	.007	9
S-6084 Brass*	.059	.085	.095 FNL	.007	9
S-6084 Copper*	.059	.085	.095 FNL	.007	9
S-5867 Brass*	.059	.088	.095 FNL	.007	9
S-5867 Copper*	.059	.088	.095 FNL	.0075	9
S-6045 Brass*	.059	.093	.095 FNL	.007	9
S-6045 Copper*	.059	.093	.095 FNL	.0075	9
S-6145 Brass*	.059	.093	.090 F	.007	9
S-6145 Copper*	.059	.093	.090 F	.007	9
S-5872 Brass*	.059	.098	.110 FNL	.007	9
S-5872 Copper*	.059	.098	.110 FNL	.0075	9
SE-22 Brass*	.059	.062	.105	.006	4
SE-23 Brass*	.059	.093	.105	.006	4
SE-24 Brass*	.059	.125	.105	.006	4
SE-25 Brass*	.059	.156	.105	.006	4
SE-26 Brass*	.059	.187	.105	.007	4
SE-27 Brass*	.059	.219	.105	.007	4
S-5954 Brass	.059	.075	.105	.007	

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

† All eyelets Rolled Flange unless otherwise marked:

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁷ Square barrel.

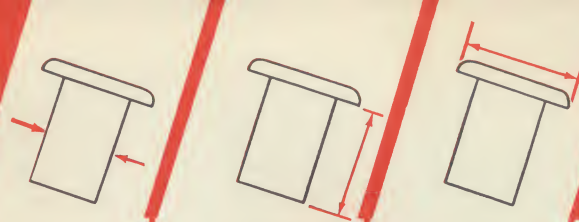
⁸ Bell Flange.

⁹ Closed End.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE‡ ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
S-5968 Brass	.059	.098	.078 F	.007	
S-5967 Brass	.059	.098	.090 F	.007	
S-6086 Brass*	.059	.118	.095 FNL	.007	9
S-6086 Copper*	.059	.118	.095 FNL	.007	9
S-5936 Brass	.059	.125	.085 F	.007	
S-6047 Brass*	.059	.125	.095 FNL	.007	9
S-6047 Copper*	.059	.125	.095 FNL	.0075	9
S-6147 Brass*	.059	.125	.090 F	.007	9
S-6147 Copper*	.059	.125	.090 F	.007	9
S-5812 Brass	.059	.125	.105	.0085	
S-5913 Brass	.059	.130	.092 F	.006	
S-5915 Brass	.059	.130	.092 FNL	.007	
S-5910 Brass	.059	.133	.105	.0085	
S-6088 Brass*	.059	.153	.095 FNL	.008	9
S-6088 Copper*	.059	.153	.095 FNL	.008	9
S-5813 Brass	.059	.156	.105	.009	
S-6049 Brass*	.059	.156	.095 FNL	.008	9
S-6049 Copper*	.059	.156	.095 FNL	.008	9
S-5920 Brass	.059	.170	.105	.009	
S-5938 Brass*	.059	.187	.095 FNL	.008	9
S-5938 Copper*	.059	.187	.095 FNL	.008	9
S-5909 Brass	.059	.187	.105	.0095	
S-5919 Brass	.059	.270	.105	.008	
SE-22 Brass Flat Flange	.059	.071	.115 F	.006	
SE-23 Brass Flat Flange	.059	.102	.115 F	.006	
SE-24 Brass Flat Flange	.059	.134	.115 F	.006	
SE-25 Brass Flat Flange	.059	.165	.115 F	.006	
SE-26 Brass Flat Flange	.059	.196	.115 F	.007	

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

‡ All eyelets Rolled Flange unless otherwise marked:

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁷ Square barrel.

⁸ Bell Flange.

⁹ Closed End.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE‡ ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
SE-27 Brass Flat Flange	.059	.228	.115 F	.007	
S-5884 Brass	.060	.126	.105 FNL	.007	
S-5987 Brass*	.060	.160	.115 F	.008	9
S-5988 Brass*	.060	.160	.150 F	.008	9
S-5625 Brass	.060	.209	.077 FNL	.007	
S-5990 Brass*	.062	.093	.110	.007	9
S-5767 Brass	.062	.120	.200 F	.0095	
S-5989 Brass*	.062	.125	.190 F	.009	9
S-5991 Brass*	.062	.187	.155 F	.009	9
S-5992 Brass*	.062	.218	.155 F	.009	9
S-6203 Brass*	.062	.218	.195 F	.009	9
S-6202 Brass*	.062	.281	.155 F	.009	9
S-5993 Brass*	.063	.135	.110	.008	9
S-5746 Brass ⁷	.064	.160	.115 F	.010	
S-5974 Brass ⁷	.064	.120	.115	.008	
S-5914 Brass	.065	.125	.117	.009	
S-5994 Brass*	.065	.125	.120	.008	9
S-5839 Brass	.065	.145	.118	.008	
S-5995 Brass*	.065	.175	.190 F	.009	9
S-5788 Brass	.065	.154	.117	.008	
S-5894 Brass	.065	.195	.117	.009	
S-5824 Brass	.065	.221	.117	.009	
S-5958 Brass	.065	.240	.117	.009	
S-5853 Brass	.065	.260	.117	.009	
S-5969 Brass	.068	.098	.098 F	.007	
S-5966 Brass	.068	.098	.115 F	.007	
S-5949 Brass	.069	.095	.105 FNL	.007	
S-5887 Brass	.072	.089	.098 F	.006	

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

‡ All eyelets Rolled Flange unless otherwise marked:

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁸ Bell Flange.

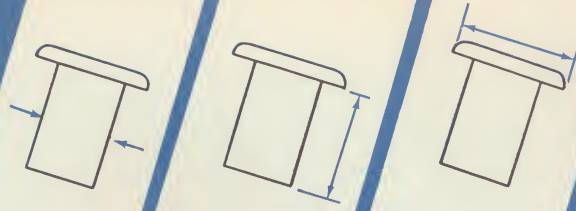
⁹ Closed End.

⁷ Square barrel.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE‡ ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
S-5907 Brass	.072	.132	.117 FNL	.007	
S-5609 Brass	.073	.088	.117	.006	
334 Short Brass	.075	.066	.125 F	.015	
S-5719 Brass	.075	.066	.153 F	.015	
S-5877 Copper	.076	.093	.117 FNL	.008	
S-5898 Copper ⁵	.076	.093	.117 FNL	.008	
S-5848 Brass	.076	.099	.110 F	.006	
S-5878 Copper	.076	.170	.117 FNL	.008	
334 Brass	.077	.101	.124 F	.016	
S-5732 Brass	.078	.077	.111 F	.008	
S-5721 Brass ¹	.082-.070	.148	.150 F	.008	
S-5996 Brass*	.085	.165	.156	.009	9
S-5953 Brass	.085	.187	.130	.010	
S-5997 Brass*	.086	.188	.156	.009	9
S-5774 Brass ¹	.095-.089	.170	.150	.012	
S-5875 Brass	.087	.190	.178 FNL	.0095	
S-5998 Brass*	.088	.155	.147	.009	9
S-5973 Brass	.088	.172	.112 F	.009	
S-5601 Alum	.088	.323	.133 F	.014	
SE-33 Brass*	.089	.093	.150	.008	4
SE-34 Brass*	.089	.125	.150	.008	4
SE-35 Brass*	.089	.156	.150	.009	4
SE-36 Brass*	.089	.187	.150	.0095	4
SE-37 Brass*	.089	.219	.150	.0095	4
SE-38 Brass*	.089	.250	.150	.010	4
SE-39 Brass*	.089	.281	.150	.010	4

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

‡ All eyelets Rolled Flange unless otherwise marked:

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁷ Square barrel.

⁸ Bell Flange.

⁹ Closed End.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE‡ ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
SE-310 Brass*	.089	.312	.150	.011	4
S-5978 Brass	.089	.073	.150	.008	
S-5931 Brass*	.089	.093	.125 FNL	.0085	9
S-5931 Copper*	.089	.093	.125 FNL	.0085	9
S-5929 Brass	.089	.099	.130 F	.009	
S-5950 Brass ⁸	.089	.120	.200	.0095	
S-6240 Brass*	.089	.125	.125 FNL	.0085	9
S-5646 Brass	.089	.135	.150	.012	
S-5780 Cupro Nickel ¹	.095-.089	.166	.150	.012	
S-5934 Brass*	.089	.156	.125 FNL	.0085	9
S-5934 Copper*	.089	.156	.125 FNL	.0085	9
S-5630 Brass	.089	.156	.150	.012	
S-5922 Steel	.089	.163	.155 F	.009	
S-5951 Brass ⁸	.089	.180	.200	.0095	
S-5675 Brass	.089	.187	.150	.012	
S-5849 Brass	.089	.219	.150	.012	
S-5632 Brass	.089	.222	.150	.012	
S-5751 Cupro Nickel	.089	.222	.150	.012	
S-5911 Brass ⁹	.089	.235	.110 F	.0095	
S-5815 Brass ⁹	.089	.240	.142	.0095	
S-5636 Brass	.089	.250	.187	.011	
S-5677 Brass	.089	.250	.150	.013	
S-5709 Cupro Nickel	.089	.250	.150	.011	
S-5710 Cupro Nickel	.089	.292	.146	.011	
SE-33 Brass Flat Flange	.089	.103	.155 F	.008	
SE-34 Brass Flat Flange	.089	.135	.155 F	.008	
SE-35 Brass Flat Flange	.089	.166	.155 F	.009	
SE-36 Brass Flat Flange	.089	.197	.155 F	.0095	

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

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⁵ Scored barrel.

⁶ Hexagon Head.

⁸ Bell Flange.

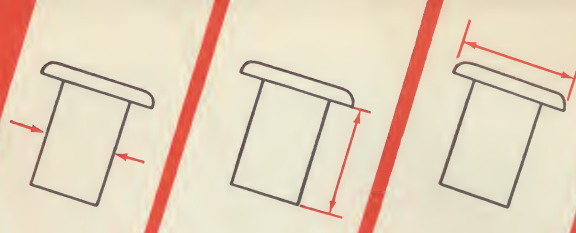
⁹ Closed End.

⁷ Square barrel.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE‡ ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
SE-37 Brass Flat Flange	.089	.229	.155 F	.0095	
SE-38 Brass Flat Flange	.089	.260	.155 F	.010	
SE-39 Brass Flat Flange	.089	.291	.155 F	.010	
SE-310 Brass Flat Flange	.089	.322	.155 F	.011	
S-5794 Brass	.090	.133	.187	.0095	
S-5869 Brass	.090	.190	.193 FNL	.0095	
S-5980 Brass	.090	.250	.150	.010	
S-5836 Brass	.092	.095	.125	.008	
S-5874 Copper	.092	.100	.130 FNL	.008	
S-5001 Brass	.092	.112	.138 F	.015	
S-5840 Brass	.092	.156	.125	.009	
S-5946 Brass	.092	.164	.125 F	.009	
S-5876 Copper	.092	.166	.130 FNL	.008	
S-5003 Brass	.094	.062	.143 F	.012	
6198 Brass	.094	.130	.255	.010	
S-5881 Brass	.094	.137	.250	.010	
S-5999 Brass	.095	.140	.155	.009	
S-5578 Brass ¹	.098-.090	.174	.181 F	.0095	
S-5808 Brass	.100	.240	.185 F	.011	
S-5716 Brass ¹	.101-.093	.251	.178	.010	
3350 Brass¹	.105-.092	.185	.266	.013	
S-5006 Brass	.106	.083	.153 F	.014	
O Glove Brass¹	.108-.100	.149	.273	.013	
S-5896 Alum ¹	.108-.100	.159	.273	.013	
S-5007 Brass ¹	.111-.097	.143	.194	.0205	
5116 Brass	.113	.298	.233	.0105	

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

‡ All eyelets Rolled Flange unless otherwise marked:

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁷ Square barrel.

⁸ Bell Flange.

⁹ Closed End.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE† ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
S-5008 Brass	.115	.157	.231	.0095	
S-6200 Brass	.115	.160	.230	.010	
S-6201 Brass	.117	.156	.225 F	.010	
S-5928 Brass	.118	.053	.187 F	.009	
S-5942 Brass	.118	.385	.200	.011	
S-6205 Brass	.120	.175	.310 F	.0105	
637 Brass	.120	.225	.270	.009	
645 Brass	.120	.235	.342 F	.009	
647 Brass	.120	.218	.235	.009	
SE-43 Brass*	.121	.093	.200	.0095	4
SE-44 Brass*	.121	.125	.200	.0095	4
SE-45 Brass*	.121	.156	.200	.0095	4
SE-46 Brass*	.121	.187	.200	.0095	4
SE-47 Brass*	.121	.219	.200	.0095	4
SE-48 Brass*	.121	.250	.200	.0095	4
SE-49 Brass*	.121	.281	.200	.0105	4
SE-410 Brass*	.121	.312	.200	.0105	4
SE-411 Brass*	.121	.344	.200	.010	4
S-5802 Copper	.121	.100	.175	.0095	
S-5935 Brass*	.121	.156	.175 FNL	.009	
S-5935 Copper*	.121	.156	.175 FNL	.009	
S-5892 Brass	.121	.187	.200	.012	
SE-43 Brass Flat Flange	.121	.106	.205 F	.0095	
SE-44 Brass Flat Flange	.121	.138	.205 F	.0095	
SE-45 Brass Flat Flange	.121	.169	.205 F	.0095	
SE-46 Brass Flat Flange	.121	.200	.205 F	.0095	
SE-47 Brass Flat Flange	.121	.232	.205 F	.0095	
SE-48 Brass Flat Flange	.121	.263	.205 F	.0095	

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

† All eyelets Rolled Flange unless otherwise marked:

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁷ Square barrel.

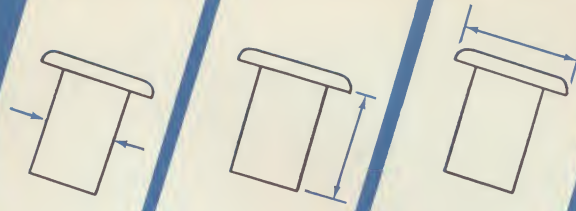
⁸ Bell Flange.

⁹ Closed End.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE‡ ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
SE-49 Brass Flat Flange	.121	.295	.205 F	.0105	
SE-410 Brass Flat Flange	.121	.325	.205 F	.0105	
SE-411 Brass Flat Flange	.121	.357	.205 F	.010	
S-5690 Brass	.122	.828	.235	.013	
5 Invincible Brass^{2,4}	.124	.097	.195	.009	10, 12
5 Invincible Alum^{2,4}	.124	.097	.195	.012	10, 12
S-5570 Brass	.124	.310	.233	.0105	
659 Alum	.126	.135	.215 F	.012	
043 Blind Brass^{2,3,4,5}	.128	.130	.235 F	.009	12
043 Blind Steel^{2,3,4,5}	.128	.130	.235 F	.008	12
043 Blind Alum^{2,4,5}	.130	.125	.235 F	.014	12
½ Brass	.128	.468	.223	.015	
200 Brass	.132	.182	.227	.010	
S-5790 Brass ¹	.130-.125	.160	.303 F	.010	
143 Blind Brass^{2,3,4,5}	.138	.125	.258 F	.009	12
143 Blind Steel^{2,3,4,5}	.138	.125	.258 F	.008	12
143 Blind Alum^{2,4,5}	.143	.125	.258 F	.014	12
S-5828 Brass	.144	.547	.438	.012	
602 Steel	.145	.185	.278	.010	
602 Alum	.145	.195	.278	.014	
606 Alum	.145	.205	.283	.014	
S-5932 Brass	.146	.156	.239	.010	
646 Brass ⁵	.148	.120	.240	.009	
115 Blind Steel^{2,3,4,5}	.148	.125	.293 F	.008	12
115 Blind Brass^{2,3,4,5}	.148	.130	.293 F	.009	12

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

‡ All eyelets Rolled Flange unless otherwise marked.

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁷ Square barrel.

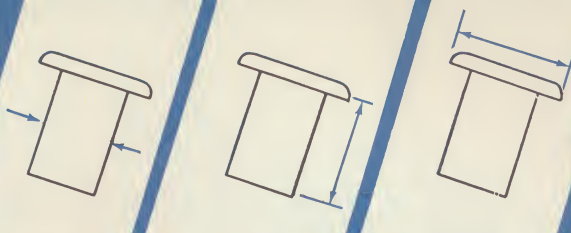
⁸ Bell Flange.

⁹ Closed End.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE† ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
600 Steel	.148	.153	.255	.008	
S-5856 Brass ¹	.148-.138	.163	.310	.009	
S-5948 Brass	.150	.075	.205 F	.0095	
S-5918 Brass	.150	.077	.207 F	.0095	
636 Brass	.150	.095	.265	.009	
4 Invincible Brass^{2,4}	.150	.097	.233	.009	10
4 Long Invincible Brass^{2,4}	.150	.125	.235	.009	10
4 Ex. Lg. Invincible Brass^{2,4}	.150	.150	.238	.009	10
SE-53 Brass*	.152	.093	.245	.010	4
SE-54 Brass*	.152	.125	.245	.010	4
SE-55 Brass*	.152	.156	.245	.010	4
SE-56 Brass*	.152	.187	.245	.010	4
SE-57 Brass*	.152	.219	.245	.010	4
SE-58 Brass*	.152	.250	.245	.010	4
SE-59 Brass*	.152	.281	.245	.010	4
SE-510 Brass*	.152	.312	.245	.010	4
SE-511 Brass*	.152	.344	.245	.011	4
S-5842 Brass	.152	.143	.222 F	.0095	
S-5841 Brass	.152	.235	.222 F	.0105	
SE-53 Brass Flat Flange	.152	.109	.255 F	.010	4
SE-54 Brass Flat Flange	.152	.141	.255 F	.010	4
SE-55 Brass Flat Flange	.152	.172	.255 F	.010	4
SE-56 Brass Flat Flange	.152	.203	.255 F	.010	4
SE-57 Brass Flat Flange	.152	.235	.255 F	.010	4
SE-58 Brass Flat Flange	.152	.266	.255 F	.010	4
SE-59 Brass Flat Flange	.152	.297	.255 F	.010	4
SE-510 Brass Flat Flange	.152	.328	.255 F	.010	4

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

† All eyelets Rolled Flange unless otherwise marked:

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁷ Square barrel.

⁸ Bell Flange.

⁹ Closed End.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE† ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
SE-511 Brass Flat Flange	.152	.360	.255 F	.011	
S-5854 Brass	.153	.218	.218	.0105	
S-5868 Brass	.153	.218	.229	.010	
S-5865 Brass	.153	.281	.229	.010	
S-5871 Brass	.153	.661	.229 F	.012	
S-5888 Brass	.155	.093	.245	.0095	
S-5685 Brass ¹	.155-.150	.563	.250	.013	
S-5955 Stainless Steel	.156	.093	.245	.010	
B Long Brass	.156	.127	.216 F	.0125	15
S-5704 Brass ^{1,10}	.156-.137	.180	.250 F	.026	
3 Colonial Brass^{3,4,5}	.156	.135	.258	.009	10
3 Long Colonial Brass^{3,4,5}	.156	.160	.258	.009	10
3 Colonial Steel^{3,4,5}	.156	.135	.258	.008	10
3 Long Colonial Steel^{3,4,5}	.156	.160	.258	.008	10
3 Colonial Alum^{3,4,5}	.156	.125	.258	.012	10
3 Long Colonial Alum^{3,4,5}	.156	.150	.258	.012	10
115 Blind Alum^{2,4,5}	.156	.130	.298 F	.014	12
3 Invincible Brass^{2,4}	.156	.125	.255	.009	10, 12
3 Long Invincible Brass^{2,4}	.156	.150	.258	.009	10, 12
3 Invincible Alum^{2,4}	.156	.120	.255	.012	10, 12
3 Long Invincible Alum^{2,4}	.156	.150	.255	.013	10, 12
3 Short Invincible Alum ^{2,4}	.156	.097	.258	.012	
3 Flat Invincible Alum ^{2,4}	.156	.135	.263 F	.012	
3 Rolet Alum^{3,4}	.156	.120	.255	.012	10, 12
3 Long Rolet Alum^{3,4}	.156	.150	.255	.013	10, 12
3 Federal Brass^{2,4,5}	.156	.135	.258	.009	10
3 Long Federal Brass^{2,4,5}	.156	.160	.258	.009	10

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

† All eyelets Rolled Flange unless otherwise marked:

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁷ Square barrel.

⁸ Bell Flange.

⁹ Closed End.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE† ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
3 Federal Steel ^{2,4,5}	.156	.135	.258	.008	10
3 Long Federal Steel ^{2,4,5}	.156	.160	.258	.008	10
3 Federal Alum ^{2,4,5}	.156	.125	.258	.012	10
3 Long Federal Alum ^{2,4,5}	.156	.150	.258	.012	10
4 Invincible Alum ^{2,4}	.156	.097	.235	.012	10, 12
4 Long Invincible Alum ^{2,4}	.156	.130	.235	.012	10, 12
125 Alum	.157	.100	.217 F	.0085	15
135 Alum	.157	.120	.217 F	.0085	15
145 Alum	.157	.135	.217 F	.0085	15
125 Brass	.157	.095	.217 F	.0071	15
135 Brass	.157	.120	.217 F	.0071	15
145 Brass	.157	.135	.217 F	.0071	15
S-5797 Brass	.157	.154	.250	.010	
635 Brass	.158	.128	.215 F	.007	
635 Steel	.158	.128	.215 F	.008	
625 Alum	.161	.122	.258	.016	
648 Alum	.162	.122	.258	.016	
S-5635 Zinc ¹	.163-.144	.125	.252	.010	
4132 Brass ¹	.163-.158	.184	.245	.012	
4133 Brass ¹	.163-.158	.222	.245	.013	
S-5684 Brass	.163	.563	.215 FNL	.011	
S-5879 Brass	.165	.540	.275 F	.012	
S-5784 Brass ^{1,10}	.169-.150	.165	.250 F	.026	
300 Button Alum ¹	.170-.143	.167	.312 F	.012	
S-5807 Brass	.175	.665	.290	.013	
S-5873 Brass	.175	.697	.300	.013	

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

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⁵ Scored barrel.

⁶ Hexagon Head.

⁷ Square barrel.

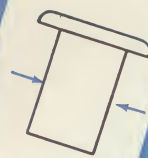
⁸ Bell Flange.

⁹ Closed End.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE† ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
661 Alum	.176	.143	.308	.013	
2 Invincible Brass^{2,4}	.177	.133	.303	.009	10, 12
2 Flat Invincible Brass	.177	.165	.320 F	.009	
2 Long Invincible Brass^{2,4}	.177	.162	.303	.010	10, 12
2 Long Flat Invincible Brass	.177	.195	.315 F	.010	
2 Colonial Steel^{3,4,5}	.177	.150	.303	.008	10
2 Long Colonial Steel^{3,4,5}	.177	.165	.303	.008	10
2 Colonial Alum^{3,4,5}	.177	.140	.303	.013	10
2 Long Colonial Alum^{3,4,5}	.177	.170	.303	.013	10
2 Federal Steel^{2,4,5}	.177	.150	.303	.008	10
2 Long Federal Steel^{2,4,5}	.177	.165	.303	.008	10
2 Federal Alum^{2,4,5}	.177	.140	.303	.013	10
2 Long Federal Alum^{2,4,5}	.177	.170	.303	.013	10
2 Colonial Brass^{3,4,5}	.178	.145	.303	.009	10
2 Long Colonial Brass^{3,4,5}	.178	.165	.303	.009	10
2 Ex. Lg. Colonial Brass^{3,4,5}	.178	.185	.303	.009	10
2 Flat Colonial Brass ⁵	.178	.160	.310 F	.009	
2 Federal Brass^{2,4,5}	.178	.145	.303	.009	10
2 Long Federal Brass^{2,4,5}	.178	.165	.303	.009	10
2 Invincible Alum^{2,4}	.178	.138	.300	.013	10, 12
2 Short Invincible Alum^{2,4}	.178	.104	.300	.013	10, 12
2 Long Invincible Alum^{2,4}	.178	.170	.300	.013	10, 12
2 Rolet Alum^{3,4}	.178	.138	.300	.013	10, 12
2 Short Rolet Alum^{3,4}	.178	.104	.300	.013	10, 12
2 Long Rolet Alum^{3,4}	.178	.170	.300	.013	10, 12
650 Alum	.178	.175	.300	.013	

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

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⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁸ Bell Flange.

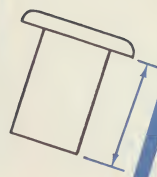
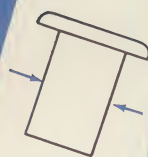
⁹ Closed End.

⁷ Square barrel.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE‡ ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
S-5880 Brass	.180	.103	.258 F	.0115	
631 Brass ⁵	.180	.150	.303	.011	
2 Extra Long Invincible Alum	.180	.197	.300	.014	
SE-63 Brass*	.183	.093	.290	.010	4
SE-64 Brass*	.183	.125	.290	.010	4
SE-65 Brass*	.183	.156	.290	.0105	4
SE-66 Brass*	.183	.187	.290	.0105	4
SE-67 Brass*	.183	.219	.290	.0105	4
SE-68 Brass*	.183	.250	.290	.0105	4
SE-69 Brass*	.183	.281	.290	.0105	4
SE-610 Brass*	.183	.312	.290	.0105	4
SE-611 Brass*	.183	.344	.290	.0105	4
SE-612 Brass*	.183	.375	.290	.012	4
SE-613 Brass*	.183	.406	.290	.012	4
SE-614 Brass*	.183	.437	.290	.012	4
S-5755 Stainless Steel	.183	.052	.249 F	.010	
S-5681 Alum	.183	.156	.290	.015	
627 Brass ⁵	.183	.200	.303	.011	
SE-63 Brass Flat Flange	.183	.111	.295 F	.010	
SE-64 Brass Flat Flange	.183	.143	.295 F	.010	
SE-65 Brass Flat Flange	.183	.174	.295 F	.0105	
SE-66 Brass Flat Flange	.183	.205	.295 F	.0105	
SE-67 Brass Flat Flange	.183	.237	.295 F	.0105	
SE-68 Brass Flat Flange	.183	.268	.295 F	.0105	
SE-69 Brass Flat Flange	.183	.299	.295 F	.0105	
SE-610 Brass Flat Flange	.183	.330	.295 F	.0105	
SE-611 Brass Flat Flange	.183	.362	.295 F	.012	
SE-612 Brass Flat Flange	.183	.393	.295 F	.012	

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

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⁵ Scored barrel.

⁶ Hexagon Head.

⁸ Bell Flange.

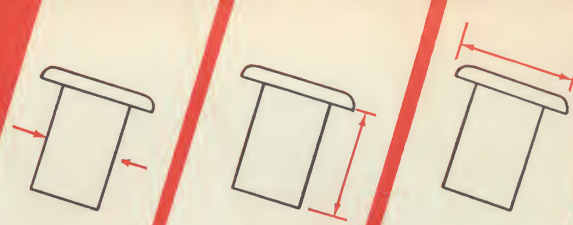
⁹ Closed End.

⁷ Square barrel.

¹⁰ Square Flange

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE‡ ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
SE-613 Brass Flat Flange	.183	.424	.295 F	.012	
SE-614 Brass Flat Flange	.183	.455	.295 F	.012	
S-5725 Stainless Steel	.185	.090	.290	.010	
Belt Steel^{3,4,5}	.185	.140	.298	.008	12
Belt Alum^{2,3,4,5}	.185	.140	.298	.0085	12
11 Special Steel^{3,4,5}	.185	.160	.310	.008	12
11 Special Brass^{3,4,5}	.185	.150	.310	.009	12
652 Steel	.186	.085	.303	.008	
CS Alum	.188	.180	.300 F	.014	
12 Brass	.194	.094	.257 F	.0115	15
S-5674 Brass	.193	.312	.290	.0105	
604 Steel ⁵	.194	.150	.345	.008	
95 Tag Zinc	.195	.089	.257 F	.015	15
11 Laundry Brass ⁵	.195	.155	.296	.009	
11 Laundry Steel ⁵	.195	.155	.293	.008	
742 Brass	.196	.090	.255 F	.0063	15
742 Alum^{3,4}	.196	.090	.255 F	.0085	15
742 Steel	.196	.093	.253 F	.008	
742 Long Alum	.196	.105	.255 F	.0085	15
853 Alum^{3,4}	.196	.085	.273	.0085	12
601 Brass ⁵	.197	.165	.325 F	.009	
660 Steel	.198	.100	.257 FNL	.010	
1 Invincible Alum^{2,4}	.200	.147	.348	.014	10,12,14
1 Short Invincible Alum^{2,4}	.200	.117	.348	.014	10, 12
1 Long Invincible Alum^{2,4}	.200	.177	.348	.014	10, 12

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

‡ All eyelets Rolled Flange unless otherwise marked:

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁷ Square barrel.

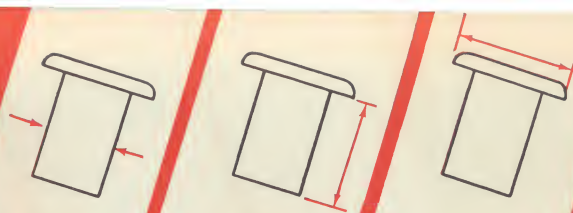
⁸ Bell Flange.

⁹ Closed End.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE† ± .006	METAL § THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
1 Rolet Alum^{3,4}	.200	.147	.348	.014	10, 12
1 Short Rolet Alum^{3,4}	.200	.117	.348	.014	10, 12
1 Long Rolet Alum^{3,4}	.200	.177	.348	.014	10, 12
1 Colonial Brass^{3,4,5}	.202	.155	.348	.009	10
1 Flat Colonial Brass ^{3,4,5}	.202	.180	.360 F	.009	
1 Long Colonial Brass^{3,4,5}	.202	.185	.348	.009	10
1 Federal Brass^{2,4,5}	.202	.155	.348	.003	10
1 Long Federal Brass^{2,4,5}	.202	.185	.348	.009	10
1 Colonial Alum^{3,4,5}	.202	.150	.348	.014	10
1 Long Colonial Alum^{3,4,5}	.202	.180	.348	.014	10
1 Colonial Steel^{3,4,5}	.202	.155	.348	.008	10
1 Long Colonial Steel^{3,4,5}	.202	.185	.348	.008	10
1 Federal Alum^{2,4,5}	.202	.150	.348	.014	10
1 Long Federal Alum^{2,4,5}	.202	.180	.348	.014	10
1 Federal Steel^{2,4,5}	.202	.155	.348	.008	10
1 Long Federal Steel^{2,4,5}	.202	.185	.348	.008	10
1 Invincible Brass^{2,4}	.202	.147	.350	.011	10, 12
1 Long Invincible Brass^{2,4}	.202	.172	.348	.011	10, 12
629 Brass ⁵	.204	.162	.348	.011	
S-5556 Brass	.204	.422	.333 F	.012	
½ Curtain Brass	.204	.475	.365	.011	
205 Alum^{3,4}	.205	.138	.285	.014	12
4094 Brass ¹	.205-.200	.210	.403	.014	
4211 Brass ¹	.205-.200	.250	.403	.013	
639 Brass ⁵	.206	.155	.348	.009	
632 Brass ⁵	.206	.195	.348	.011	
603 Brass ⁵	.206	.155	.268	.009	

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

† All eyelets Rolled Flange unless otherwise marked:

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁸ Bell Flange.

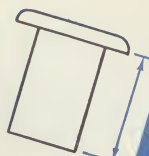
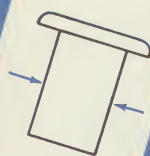
⁹ Closed End.

⁷ Square barrel.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE† ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
3/8 Curtain Zinc¹	.206-.196	.354	.323	.012	
621 Brass ⁵	.207	.155	.268	.009	
626 Brass ⁵	.207	.160	.268	.009	
607 Brass ⁵	.207	.160	.268	.009	
657 Brass ⁵	.209	.114	.268	.009	
1 Jumbo Blind Brass^{2,3,4,5}	.209	.145	.333 F	.009	12
1 Jumbo Blind Alum^{2,4,5}	.209	.130	.333 F	.014	12
1 Jumbo Blind Steel^{2,3,4,5}	.209	.145	.333 F	.008	12
609 Brass ⁵	.209	.155	.268	.009	
205 Zinc¹	.210-.185	.152	.283	.010	
205 Brass¹	.210-.185	.152	.283	.010	
605 Brass ⁵	.210	.155	.343	.009	
628 Brass ⁵	.211	.170	.320	.009	
643 Brass ⁵	.212	.160	.268	.009	
644 Brass ⁵	.212	.158	.268	.009	
4213 Brass	.214	.256	.550	.0145	
SE-73 Brass*	.215	.093	.340	.011	9
SE-74 Brass*	.215	.125	.340	.011	4
SE-75 Brass*	.215	.156	.340	.011	4
SE-76 Brass*	.215	.187	.340	.011	4
SE-77 Brass*	.215	.219	.340	.011	4
SE-78 Brass*	.215	.250	.340	.011	4
SE-79 Brass*	.215	.281	.340	.011	4
SE-710 Brass*	.215	.312	.340	.011	4
SE-711 Brass*	.215	.344	.340	.011	4
SE-712 Brass*	.215	.375	.340	.011	4
S-5805 Brass	.215	.125	.314	.011	
SE-73 Brass Flat Flange	.215	.113	.350 F	.011	

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

† All eyelets Rolled Flange unless otherwise marked;

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Bell Flange.

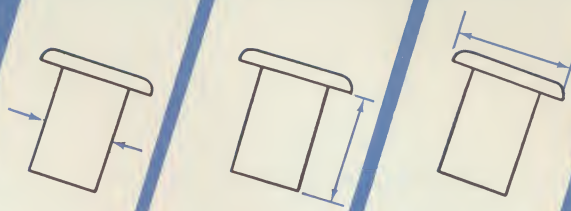
⁶ Hexagon Head.

⁹ Closed End.

⁷ Square barrel.

¹⁰ Square Flange.

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE‡ ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
SE-74 Brass Flat Flange	.215	.145	.350 F	.011	
SE-75 Brass Flat Flange	.215	.176	.350 F	.011	
SE-76 Brass Flat Flange	.215	.207	.350 F	.011	
SE-77 Brass Flat Flange	.215	.239	.350 F	.011	
SE-78 Brass Flat Flange	.215	.270	.350 F	.011	
SE-79 Brass Flat Flange	.215	.301	.350 F	.011	
SE-710 Brass Flat Flange	.215	.332	.350 F	.011	
SE-711 Brass Flat Flange	.215	.364	.350 F	.011	
SE-712 Brass Flat Flange	.215	.395	.350 F	.011	
655 Brass ⁵	.215	.197	.368	.009	
AA Federal Brass^{2,4,5}	.217	.160	.388	.009	10
AA Extra Short Federal Brass ^{2,4,5}	.217	.095	.388	.009	
AA Long Federal Brass^{2,4,5}	.217	.190	.388	.009	10
AA Ex. Long Fed. Brass^{2,4,5}	.217	.210	.388	.009	10
AA Flat Federal Brass ^{2,4,5}	.217	.180	.400 F	.009	
AA Federal Steel^{2,4,5}	.217	.165	.388	.008	10
AA Long Federal Steel^{2,4,5}	.217	.190	.388	.010	10
AA Ex. Long Fed. Steel^{2,4,5}	.217	.215	.388	.010	10
AA Colonial Brass^{3,4,5}	.217	.160	.388	.009	10
AA Long Colonial Brass^{3,4,5}	.217	.190	.388	.009	10
AA Ex. Long Col. Brass^{3,4,5}	.217	.210	.388	.009	10
AA Ex. Short Colonial Brass ^{3,4,5}	.217	.095	.388	.009	
AA Flat Colonial Brass ^{3,4,5}	.217	.180	.400 F	.009	
AA Colonial Steel^{3,4,5}	.217	.165	.388	.008	10
AA Long Colonial Steel^{3,4,5}	.217	.190	.388	.010	10
AA Ex. Long Col. Steel^{3,4,5}	.217	.215	.388	.010	10
S-5885 Brass	.218	.145	.345 F	.011	

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

‡ All eyelets Rolled Flange unless otherwise marked:

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁸ Bell Flange.

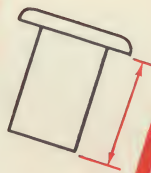
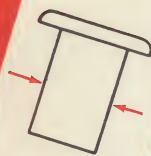
⁹ Closed End.

⁷ Square barrel.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE† ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
S-5806 Brass	.219	.187	.315	.011	
S-5982 Brass	.216	.344	.340	.011	
633 Brass ⁵	.221	.165	.388	.011	
404 Alum^{3,4}	.222	.160	.455	.014	14
404 Brass^{3,4}	.222	.160	.460	.011	14
404 Special Long Brass	.222	.220	.453	.011	
Ski Boot Long Brass⁶	.224	.200	.435	.011	
AA Federal Alum^{2,4,5}	.224	.160	.388	.015	10
AA Long Federal Alum^{2,4,5}	.224	.190	.388	.015	10
AA Ex. Long Fed. Alum^{2,4,5}	.224	.205	.388	.015	10
AA Flat Federal Alum ^{2,4,5}	.224	.180	.400 F	.015	
AA Colonial Alum^{3,4,5}	.224	.160	.388	.015	10
AA Long Colonial Alum^{3,4,5}	.224	.190	.388	.015	10
AA Ex. Long Col. Alum^{3,4,5}	.224	.205	.388	.015	10
AA Flat Colonial Alum ^{3,4,5}	.224	.180	.400 F	.015	
1 Telescopic Washer Brass⁵	.225	.090	.388	.009	12, 14
1 Long Telescopic Washer Brass ⁵	.225	.140	.395	.009	
AA Short Invincible Alum^{2,4}	.225	.125	.385	.015	10, 12
AA Invincible Alum^{2,4}	.225	.160	.388	.015	10, 12
AA Long Invincible Alum^{2,4}	.225	.185	.390	.015	10, 12
AA Short Rolet Alum^{3,4}	.225	.125	.385	.015	10, 12
AA Rolet Alum^{3,4}	.225	.160	.388	.015	10, 12
AA Long Rolet Alum^{3,4}	.225	.185	.390	.015	10, 12
AA Short Inv. Brass^{2,4}	.226	.118	.387	.011	10, 12
AA Invincible Brass^{2,4}	.226	.158	.390	.011	10, 12
AA Short Rolet Brass^{3,4}	.226	.118	.387	.011	10, 12
AA Rolet Brass^{3,4}	.226	.158	.390	.011	10, 12
S-5617 Gilding ¹	.228-.212	.140	.317 F	.011	

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

† All eyelets Rolled Flange unless otherwise marked:

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁷ Square barrel.

⁸ Bell Flange.

⁹ Closed End.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE‡ ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
AA Short Flat Invincible Brass ^{2,4}	.228	.140	.397 F	.011	
AA Flat Invincible Brass ^{2,4}	.228	.175	.400 F	.011	
AA Long Invincible Brass^{2,4}	.228	.180	.388	.011	10, 12
AA Ex. Long Inv. Brass ^{2,4}	.228	.210	.388	.011	
AA Flat Rolet Brass ^{3,4}	.228	.175	.400 F	.011	
AA Short Flat Rolet Brass ^{3,4}	.228	.140	.397 F	.011	
AA Long Rolet Brass^{3,4}	.228	.180	.388	.011	
AA Ex. Long Rolet Brass^{3,4}	.228	.210	.388	.011	10, 12
S-5639 Brass	.229	.410	.331	.012	
10 Terminal Brass ⁵	.230	.160	.388	.009	
10 Long Terminal Brass ⁵	.230	.190	.388	.009	
10 Extra Long Terminal Brass ⁵	.230	.215	.388	.009	
1 Telescopic Washer Alum⁵	.232	.090	.390	.013	12, 14
1 Long Telescopic Washer Alum ⁵	.232	.130	.412	.013	
634 Alum ⁵	.233	.152	.390	.013	
640 Brass ⁵	.233	.190	.388	.011	
S-5666 Brass	.234	.197	.375 F	.014	
S-5703 Brass	.238	.221	.340	.022	
S-5855 Brass	.241	.090	.360 F	.008	
S-5615 Steel	.241	.119	.340 F	.0095	
S-5818 Bronze	.241	.121	.340 F	.010	
S-5847 Zinc	.245	.094	.324 F	.010	15
SE-83 Brass*	.246	.093	.385	.011	4
SE-84 Brass*	.246	.125	.385	.011	4
SE-85 Brass*	.246	.156	.385	.011	4
SE-86 Brass*	.246	.187	.385	.011	4
SE-87 Brass*	.246	.219	.385	.011	4
SE-88 Brass*	.246	.250	.385	.011	4

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

‡ All eyelets Rolled Flange unless otherwise marked:

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁸ Bell Flange.

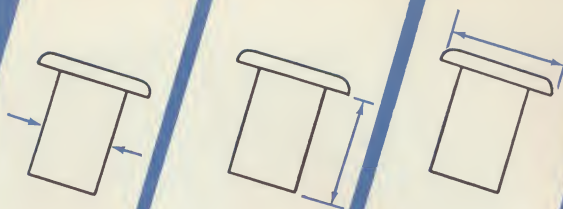
⁹ Closed End.

⁷ Square barrel.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE† ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
SE-89 Brass*	.246	.281	.385	.011	4
SE-810 Brass*	.246	.312	.385	.011	4
SE-811 Brass*	.246	.344	.385	.011	4
SE-812 Brass*	.246	.375	.385	.011	4
SE-813 Brass*	.246	.406	.385	.011	4
S-5925 Alum ⁹	.246	.152	.320 F	.012	
SE-83 Brass Flat Flange	.246	.118	.390 F	.011	
SE-84 Brass Flat Flange	.246	.150	.390 F	.011	
SE-85 Brass Flat Flange	.246	.181	.390 F	.011	
SE-86 Brass Flat Flange	.246	.212	.390 F	.011	
SE-87 Brass Flat Flange	.246	.244	.390 F	.011	
SE-88 Brass Flat Flange	.246	.275	.390 F	.011	
SE-89 Brass Flat Flange	.246	.306	.390 F	.011	
SE-810 Brass Flat Flange	.246	.337	.390 F	.011	
SE-811 Brass Flat Flange	.246	.369	.390 F	.011	
SE-812 Brass Flat Flange	.246	.400	.390 F	.011	
SE-813 Brass Flat Flange	.246	.431	.390 F	.011	
651 Alum	.248	.165	.388	.015	
202 Brass^{3,4,5}	.250	.115	.445	.009	14
202 Long Brass ⁵	.250	.145	.455	.009	
AA Telesc. Washer Brass⁵	.255	.090	.437	.009	12, 14
AA Telesc. Washer Alum⁵	.255	.095	.440	.013	12, 14
202 Alum^{3,4,5}	.256	.120	.450	.013	14
3/8" Short Calendar Brass¹	.265-.255	.101	.363 F	.011	15
3/8" Calendar Brass¹	.265-.255	.130	.363 F	.013	15
3/8" Short Calendar Zinc¹	.265-.260	.101	.363 F	.014	15
3/8" Calendar Zinc¹	.270-.265	.130	.363 F	.0165	15
3/8" Calendar Steel¹	.268-.264	.129	.363 F	.0095	

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

† All eyelets Rolled Flange unless otherwise marked:

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁷ Square barrel.

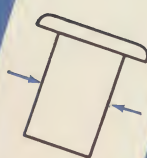
⁸ Bell Flange.

⁹ Closed End.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE† ± .006	METAL THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
649 Brass	.275	.138	.348 F	.010	
00 Invincible Alum^{2,4}	.275	.152	.495	.016	10, 12
00 Long Invincible Alum^{2,4}	.276	.180	.493	.016	10, 12
00 Rolet Alum^{3,4}	.275	.152	.495	.016	10, 12
00 Long Rolet Alum^{3,4}	.275	.180	.493	.016	10, 12
642 Alum	.276	.168	.483	.015	
653 Alum	.276	.202	.475	.016	
00 Invincible Brass^{2,4}	.275	.150	.495	.011	10, 12
00 Long Invincible Brass^{2,4}	.276	.177	.488	.011	10, 12
00 Rolet Brass^{3,4}	.276	.150	.495	.011	10, 12
00 Long Rolet Brass^{3,4}	.276	.177	.488	.011	10, 12
642 Steel	.276	.180	.483	.010	
S-5786 Zinc	.279	.063	.363 F	.010	
2 Calendar Alum	.285	.105	.385 F	.012	15
2 Calendar Brass	.285	.115	.385 F	.009	15
2 Calendar Steel	.285	.115	.385 F	.008	
654 Brass	.285	.185	.488	.011	
8 Gasket Bronze ¹	.286-.272	.153	.387 F	.011	
S-5696 Brass ¹	.288-.275	.210	.507	.011	
S-5895 Zinc ¹	.295-.268	.170	.547	.010	
S-5886 Brass¹	.293-.273	.213	.507	.011	
O Grommet Brass¹	.295-.268	.150	.547	.0095	14
O Grommet Steel¹	.295-.268	.150	.547	.009	14
S-5850 Brass ¹	.305-.278	.220	.507	.011	
641 Alum	.296	.220	.505	.015	
Long Junior Brass^{3,4}	.296	.218	.505	.011	10, 14
Long Junior Alum^{3,4}	.296	.220	.505	.016	10, 14

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

† All eyelets Rolled Flange unless otherwise marked:

F = Flat Flange FNL = Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁷ Square barrel.

⁸ Bell Flange.

⁹ Closed End.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE† ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
630 Alum	.296	.223	.505	.016	
505 Brass^{3,4}	.297	.143	.540	.011	14
505 Short Brass	.297	.130	.540	.011	
505 Alum^{3,4}	.297	.150	.540	.016	14
S-5882 Alum¹	.316-.284	.231	.507	.016	
9 Gasket Bronze ¹	.317-.310	.138	.408 F	.011	
S-5924 Alum ¹	.328-.284	.263	.520 F	.016	
303 Alum^{3,4,5}	.335	.097	.550	.013	14
303 Brass^{3,4,5}	.335	.105	.540	.009	14
10 Gasket Bronze	.336-.325	.128	.461 F	.011	
S-5560 Brass¹	.340-.335	.136	.602 F	.010	15
1 Calendar Brass	.343	.115	.450 F	.009	
1 Calendar Steel	.343	.110	.452 F	.008	
1 Extra Long Calendar Brass	.343	.160	.458 F	.008	
1 Klondike Brass^{3,4}	.350	.182	.592	.011	10, 14
1 Klondike Alum^{3,4}	.350	.187	.592	.016	10, 14
1 Calendar Alum	.355	.110	.450 F	.012	15
½" Calendar Brass¹	.355-.350	.134	.453 F	.012	15
½" Short Calendar Brass¹	.360-.355	.107	.453 F	.0115	15
½" Short Calendar Zinc¹	.360-.355	.107	.453 F	.012	15
½" Calendar Zinc¹	.360-.355	.134	.453 F	.015	15
1 Grommet Brass¹	.360-.315	.181	.668	.0095	14
1 Grommet Steel¹	.360-.315	.181	.668	.009	14

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

† All eyelets Rolled Flange unless otherwise marked:
F = Flat Flange FNL = Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁷ Square barrel.

⁸ Bell Flange.

⁹ Closed End.

¹⁰ Square Flange.

CONSOLIDATED LIST



United EYELETS

Stock items
in heavy type

NAME OR NUMBER AND MATERIAL	OUTSIDE DIAMETER BARREL ± .003	LENGTH UNDER FLANGE ± .008	FLANGE DIAMETER AND TYPE‡ ± .006	METAL§ THICKNESS	FOR OTHER DETAILS SEE PAGE NO.
Long Klondike Brass¹	.366-.323	.233	.602	.011	10, 14
Large Klondike Brass¹	.366-.325	.198	.602	.011	10, 14
Large Klondike Alum¹	.366-.343	.196	.600	.016	10, 14
S-5013 Brass	.377	.230	.677 F	.020	
S-5706 Brass	.380	.396	.562 F	.015	
S-5943 Alum ¹	.382-.344	.225	.608 F	.016	
2530 Brass	.399	.118	.557 F	.0105	15
S-5908 Brass ¹	.435-.430	.125	.555 F	.0105	
396 Brass¹	.435-.430	.094	.555 F	.008	15
S-5576 Brass	.435	.550	.560 F	.012	
S-5575 Brass	.435	.656	.560 F	.012	
S-5906 Steel ¹	.453-.417	.250	.825	.010	
2 Grommet Brass¹	.455-.422	.222	.828	.0105	14
2 Grommet Steel	.455-.422	.222	.828	.010	
S-5602 Brass	.466	.200	.607	.028	
S-5692 Brass ¹	.518-.510	.109	.650 F	.012	
Towel Grommet Steel Not Indented	.518	.143	.878 F	.009	14
S-5014 Steel ¹	.518-.500	.180	.878 F	.009	
Towel Grommet Brass Indented	.522	.143	.878 F	.011	14
Towel Grommet Brass Not Indented	.522	.143	.878 F	.011	
3 Grommet Brass ¹	.530-.465	.283	.983	.015	
4 Grommet Brass¹	.625-.525	.305	1.063	.017	14

Stock items in heavy type; limited quantities of made-to-order eyelets (light type) may be available from stock.

‡ All eyelets Rolled Flange unless otherwise marked:

F=Flat Flange FNL=Funnel Flange

§ Dimension shown is specification for metal from which eyelet is made.

* Indicates eyelets made to closer tolerances; see page reference shown.

¹ Where two dimensions shown, eyelet has tapered barrel.

² Finished in 29 standard as well as special enameled (roller coated) colors.

³ Finished in 12 standard as well as special japanned (tumbled) colors.

⁴ Also available in the usual plain or plated finishes.

⁵ Scored barrel.

⁶ Hexagon Head.

⁸ Bell Flange.

⁹ Closed End.

⁷ Square barrel.

¹⁰ Square Flange.

All dimensions in inches

CONSOLIDATED LIST

United TWIN EYELETS

Stock items
in heavy type

NAME OR NUMBER	OUTSIDE ¹ DIAMETER BARREL ±.003	LENGTH UNDER FLANGE ±.008	FLANGE WIDTH ±.006	CENTER- TO-CENTER DISTANCE ±.003	FLANGE LENGTH	METAL § THICKNESS
S-5586	.077-.065	.099	.156	.500	.656	.015
S-5793	.077-.065	.109	.125	.147	.272	.017
Small Twin	.078-.064	.093	.124	.147	.271	.016
Large Twin	.091-.074	.119	.160	.185	.345	.016
S-5623	.091-.074	.094	.157	.185	.342	.0205
640 Twin	.096-.074	.152	.156	.185	.341	.0205
S-5652	.098-.085	.095	.156	.500	.656	.015
S-5705	.101-.096	.072	.166	.250	.416	.015
S-5023	.101-.094	.088	.166	.250	.416	.015
257 Long Twin	.120-.104	.163	.216	.257	.473	.019
S-5827	.126-.121	.115	.275	.312	.587	.040
S-5594	.135-.114	.155	.281	.308	.593	.040
S-5595	.135-.114	.165	.217	.257	.474	.040
S-5589	.135-.116	.152	.235	.252	.485	.040
S-5728	.145-.138	.112	.275	.312	.587	.040
S-5727	.145-.125	.165	.275	.308	.587	.040
S-5820	.154-.139	.157	.269	.375	.690	.035
S-5590	.171-.154	.160	.281	.418	.702	.035
S-5744	.198-.175	.163	.356	.492	.848	.040
S-5588	.198-.175	.230	.356	.492	.848	.040

Stock items in heavy type; limited quantities of made-to-order twin eyelets (*light type*) may be available from stock.

All twin eyelets made of brass with Flat Flange.

¹Two dimensions shown indicate tapered barrel.

§ Dimension shown is specification for brass from which eyelet is made.

All dimensions in inches

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